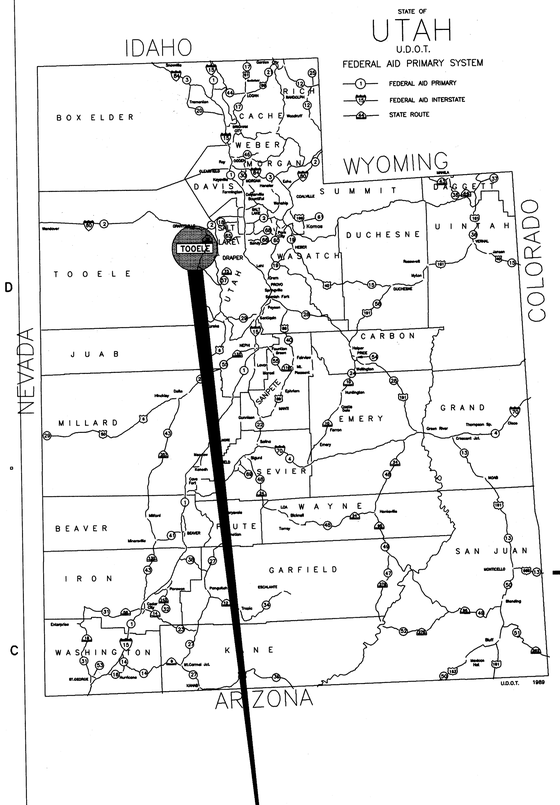

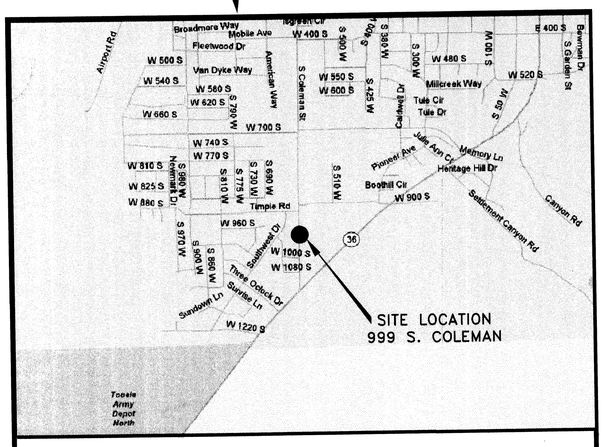

LOCATION MAP
NO SCALE

UDOT MAINTENANCE STATION #2423

TOOELE, UTAH

DFCM PROJECT #06033900

CONSTRUCTION DOCUMENTS

OCTOBER 30, 2006

PREPARED BY

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CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2003	National Electrical Code	2005
International Mechanical Code	2003	Uniform Code for Building Conservation	N.A.
International Plumbing Code	2003	ADA Accessibility Guidelines	2002
International Fire Code	2003		
International Energy Conservation Code	2003		

A. Occupancy and Group: S1 B (OFFICE ACCESSORY)

Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____

Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I/A I/B II/A II/B III/A III/B IV/HT V/A (V/B)

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: YES Nonseparated Uses: NO

F: Sprinklers:

Required: NO Provided: NO Type of Sprinkler System: N.A.

G: Number of Stories: 1 Building Height: 24'-6"

H: Actual Area per Floor (square feet): 6956 SF

I: Tabular Area: 9000 SF

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

$$15750\ SF = 9000 + \left[\frac{9000\ (75)}{100}\right] + \left[\frac{9000\ (0)}{100}\right]$$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1 \qquad \frac{6956\ SF}{15750\ SF} = .629$$

c) Total Allowable Area for:

1) One Story: 15750 SF
2) Two Story: $A_a(2)$ N.A.
3) Three Story: $A_a(3)$ N.A.

d) Unlimited Area Building: Yes ____ No X Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	N.A.	Floors - Ceiling Floors	0	N.A.
Interior Bearing Walls	0	N.A.	Roofs - Ceiling Roofs	0	N.A.
Exterior Non-Bearing Walls	0	N.A.	Exterior Doors and Windows	0	N.A.
Structural Frame	0	N.A.	Shaft Enclosures	0	N.A.
Partitions - Permanent	0	N.A.	Fire Walls	0	N.A.
Fire Barriers	0	N.A.	Fire Partitions	0	N.A.
			Smoke Partitions	0	N.A.

L. Design Occupant Load: 14* *IBC TABLE 1004.1.2

Exit Width Required: 4.2" Exit Width Provided: 36"

M. Minimum Number of Required Plumbing Facilities: *UNISEX (IBS SECTION 2902.2 EXPECTION 2)

Design Occupant Load: 6* *BASED ON UDOT STAFFING (15 MAX.)

a) Water Closets - Required (m) 1* (f) 1* Provided (m) 1* (f) 1*
b) Lavatories - Required (m) 1* (f) 1* Provided (m) 1* (f) 1*
c) Bath Tubs or Showers: 1 (EMERGENCY EYEWASH)
d) Drinking Fountains: 1 Service Sinks: 1

MAXIMUM NUMBER OF EMPLOYEES = 15

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REVIEWED FOR CODE COMPLIANCE
SIGNATURE: E.E.
DATE: 1-29-07

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STATE OF UTAH
RALPH L. STANISLAW
95-310818-0301
LICENSED ARCHITECT
1/24/07

ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

COVER SHEET

G000

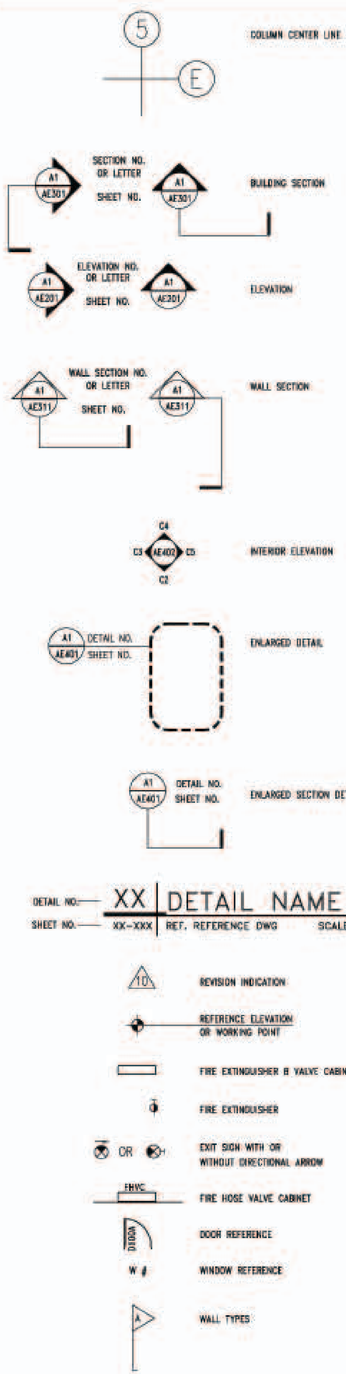
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. ALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD, U.N.O.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
5. DIMENSIONS NOTED AS N.T.S. ARE TO BE FIELD VERIFIED.
6. ALL WOOD IN CONTACT WITH OR WITHIN 8" OF SOILS IS TO BE FIELD TREATED FOR MOISTURE, RODENT AND INSECT PROTECTION.
7. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
8. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE COMPLETION OF
9. PROVIDE WATER SUPPLY ROUGH-IN AND ELECTRICAL SUPPLY TO IRRIGATION CONTROLS. PROVIDE PVC SLEEVE UNDER PAVEMENTS AND WALKS
10. THE DESIGN OF THE PRE MANUFACTURED STRUCTURAL ROOF SYSTEM INCLUDING THE STEEL DECK, JOISTS, GIRDERS, COLUMNS AND THE LATERAL FORCE RESISTING SYSTEM (INCLUDING RIGID FRAMES) IS THE RESPONSIBILITY OF THE PRE MANUFACTURED METAL BUILDING SUPPLIER. FOOTINGS, STEEL COLUMNS, CONCRETE PIER SIZES & LOCATIONS SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDE AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

GRAPHIC SYMBOLS

- EARTH
- SAND
- CONC. W/ FINISH
- TILE W/ BED
- BRICK
- CMU
- LIMESTONE
- WOOD (BLOCKING)
- WOOD FRAMING
- STEEL
- RIGID INSULATION
- PLASTER
- COMP. FILLER
- METAL LATH
- GRAVEL
- CONCRETE
- CAST STONE
- MARBLE
- GRANITE
- STONE
- PLYWOOD
- WOOD FINISH
- ALUMINUM
- BATT INSULATION
- ACOUSTICAL TILE
- BACKER ROD AND FILLER
- GYPSUM BOARD
- FENCE

ARCHITECTURAL LEGEND



ABBREVIATIONS

ALT.	ALTERNATE	FIN.	FINISH	MISC.	MISCELLANEOUS	STD.	STANDARD
ALUM.	ALUMINUM	F.A.	FIRE ALARM	MTD.	MOUNTED	STL.	STEEL
A.B.	ANCHOR BOLT	F.E.	FIRE EXTINGUISHER	MUL.	MULLION	STOR.	STORAGE
&	AND	F.E.C.	F.E. CABINET			STRUCT.	STRUCTURAL/STRUCTURE
ARCH.	ARCHITECTURAL	FLR./FL.	FLOOR	NOM.	NOMINAL	SYM.	SYMMETRICAL
@	AT OR AT THE	F.D.	FLOOR DRAIN	N.	NORTH	S.STL.	STAINLESS STEEL
		FTG.	FOOTING	N.I.C.	NOT IN CONTRACT		
BM.	BEAM	FDN.	FOUNDATION	N.T.S.	NOT TO SCALE	TEL.	TELEPHONE
BLK.	BLOCK			NO. OR #	NUMBER	TEMP.	TEMPORARY/TEMPERED
BLKG.	BLOCKING	GALV.	GALVANIZED			THK.	THICK (NESS)
BD.	BOARD	G.I.	GALVANIZED IRON	OFOI	OWNER FURNISH, OWNER INSTALL	T & G	TONGUE AND GROOVE
BOT.	BOTTOM	GA.	GAUGE	OFCI	OWNER FURNISH, CONTRACTOR INSTALL	T/CONC.	TOP OF CONCRETE
BLDG.	BUILDING	GL.	GLASS	OFF.	OFFICE	T/CURB	TOP OF CURB
		GR.	GRADE	O.C.	ON CENTER	T.O.P.	TOP OF PLATE
CLKG.	CAULKING	GND.	GROUND	OPNG.	OPENING	T/WALL	TOP OF WALL
C.I.	CAST IRON	GYP.	GYPSUM	OPP.	OPPOSITE	T.	TREAD
CLG.	CEILING	GYP. BD.	GYPSUM BOARD	OPP. H.	OPPOSITE HAND	TYP.	TYPICAL
CEM.	CEMENT			O.D.	OUTSIDE DIAMETER	UNF.	UNFINISHED
CTR.	CENTER	HDWR.	HARDWARE			U.N.O.	UNLESS NOTED OTHERWISE
	CENTER LINE	HDWD.	HARDWOOD	PTD.	PAINTED	VAR.	VARY OR VARIES
CER.	CERAMIC	HT.	HEIGHT	PR.	PAIR	VERT.	VERTICAL
C.T.	CERAMIC TILE	H.P.	HIGH POINT	PART.	PARTITION	V.T.R.	VENT THROUGH ROOF
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL	HORIZ.	HORIZONTAL	PED.	PEDESTRIAN		
		H.B.	HOSE BIB	PLAS.	PLASTER	W/	WITH
CFOI	CONTRACTOR FURNISH, OWNER INSTALLED	HM	HOLLOW METAL	P. LAM.	PLASTIC LAMINATE	WD.	WOOD
		HR.	HOURS (FIRE RATING)	PL	PLATE	WP.	WATERPROOF
CLR.	CLEAR (...ANCE)			PM	PRESSED METAL	WSCT.	WAINSCOT
CLO.	CLOSET	IN.	INCH	PLYWD.	PLYWOOD	W/O	WITHOUT
COL.	COLUMN	I.D.	INSIDE DIAMETER	PT.	POINT	W.P.	WORKING POINT
CONC.	CONCRETE	INSUL.	INSULATION			W.R.	WATER RESISTANT
CMU	CONCRETE MASONRY UNIT	INT.	INTERIOR	Q.T.	QUARRY TILE		
CONN.	CONNECTION	JAN.	JANITOR				
CONSTR.	CONSTRUCTION	JT.	JOINT	RAD.	RADIUS		
CONT.	CONTINUE/CONTINUOUS	J-BOX	JUNCTION BOX	R.W.L.	RAIN WATER LEADER		
CONTR.	CONTRACTOR	KIT.	KITCHEN	RE:	REFER TO		
C.J.	CONTROL JOINT			REFL.	REFLECTED		
CORR.	CORRIDOR	LAM.	LAMINATE	REINF.	REINFORCING		
CNTR.	COUNTER	LAV.	LAVATORY	REQ.	REQUIRED		
CTSK.	COUNTERSUNK	LT.	LIGHT	REV.	REVISED		
		L.P.	LOW POINT	R.	RISER		
DET.	DETAIL			R.D.	ROOF DRAIN		
DIA.	DIAMETER	MAINT.	MAINTENANCE	RM.	ROOM		
DIM.	DIMENSION	MFR.	MANUFACTURER	R.O.	ROUGH OPENING		
DN.	DOWN	M.O.	MASONRY OPENING				
D.S.	DOWNSPOUT	MAX.	MAXIMUM	SCHED.	SCHEDULE		
DWG.	DRAWING	MECH.	MECHANICAL	SEAL.	SEALANT		
D.F.	DRINKING FOUNTAIN	MEMB.	MEMBRANE	SECT.	SECTION		
		MEN	MEN'S TOILET	S.SK.	SERVICE SINK		
EA.	EACH	MTL./MET.	METAL	SHT.	SHEET		
ELEC.	ELECTRIC (AL)	MIN.	MINIMUM	SIM.	SIMILAR		
ELEV./EL.	ELEVATION	MIR.	MIRROR	SL./SLP.	SLOPE		
EQ.	EQUAL			S.C.	SOLID CORE		
EQUIP.	EQUIPMENT			SPEC.	SPECIFICATIONS		
EXP.	EXPANSION			SQ.	SQUARE		
EXT.	EXTERIOR						
EW	EACH WAY						

INDEX OF DRAWINGS

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CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, SYMBOLS, LEGEND & SHEET INDEX

G001

MASTER KEYNOTE LIST – (APPLIES TO ARCHITECTURAL DRAWINGS ONLY)

DIVISION 1 GENERAL REQUIREMENTS

DIVISION 2 SITEWORK

02000 EARTHWORK

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02200.C0 SAND

02511 ZERO VOIDS ASPHALT PAVING

02511.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)

02740 ASPHALT CONCRETE PAVING

02740.A0 ASPHALT CONCRETE PAVING

DIVISION 3 CONCRETE

03053 CONCRETE WATER PROOFING ADMIXTURE

03053.A0 CONCRETE WATER PROOFING ADMIXTURE

03054 OLIOPHOBIC TOPICAL CONCRETE SEALER

03054.A0 OLIOPHOBIC TOPICAL SEALER

03300 CAST-IN-PLACE CONCRETE

03300.A0 CONCRETE – SLAB ON GRADE
03300.A1 CONCRETE SLAB-ON-GRADE – RE: STRUCTURAL
03300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)
03300.B1 CONCRETE SLAB – RE:STRUCTURAL
03300.B2 CONCRETE SLAB (THICKNESS)
03300.C0 FOOTING
03300.C1 FOOTING – RE: STRUCTURAL
03300.D0 CONCRETE PAD
03300.E0 RETAINING WALL
03300.F0 CAST-IN-PLACE REINFORCED CONCRETE
03300.G0 CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.H1 CONCRETE PIER, RE: STRUCTURAL
03300.J0 REINFORCING
03300.J1 REINFORCING – RE: STRUCTURAL
03300.J2 #4 BARS CONTINUOUS (QUANTITY)
03300.J3 #5 BARS CONTINUOUS (QUANTITY)
03300.K1 THICKENED SLAB, RE: STRUCTURAL
03300.L1 30# FELT
03300.M1 MOISTURE BARRIER
03300.N0 CONCRETE CURB
03300.P3 CONTROL JOINT RE: STRUCTURAL
03300.P4 CONSTRUCTION JOINT
03300.P6 CHAMFER JOINT
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP.
03300.S1 SPLASH BLOCK
03300.S2 CONCRETE SWALE
03300.T1 CONCRETE @ STAIR TREAD

DIVISION 5 METALS

05120 STRUCTURAL STEEL

05120.A1 STEEL BEAM – RE: STRUCTURAL – GALVANIZED
05120.B1 COLUMN – RE: STRUCTURAL – GALVANIZED
05120.C1 TUBE STEEL BEAM – RE: STRUCTURAL – GALVANIZED

05310 STEEL DECK

05310.A1 METAL DECK – RE: STRUCTURAL

05400 COLD-FORMED METAL FRAMING

05400.X1 STEEL STUD
05400.X2 STEEL TRACK
05400.X3 STEEL JOIST – RE:STRUCTURAL

05500 METAL FABRICATIONS

05500.A1 ANGLE – RE: STRUCTURAL
05500.A2 STEEL ANGLE (SIZE) – GALVANIZED
05500.B0 CLIP ANGLE
05500.B2 CLIP ANGLE (SIZE)
05500.C1 SHEET METAL ANGLE – 22 GA. – GALVANIZED (SIZE)
05500.D0 CHANNEL (SIZE)
05500.D1 CHANNEL – RE: STRUCTURAL
05500.D2 HAT CHANNEL (SIZE)
05500.E0 PLATE (SIZE)
05500.E1 PLATE – RE: STRUCTURAL
05500.E2 PLATE (SIZE) – GALVANIZED
05500.E3 BENT PLATE – SEE STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) – GALV. & PAINTED
05500.M1 CHECKERED PLATE (SIZE) GALVANIZED
05500.P0 ANCHOR BOLT(S)
05500.P1 ANCHOR BOLTS (DIAMETER, SPACING)

05500 METAL FABRICATIONS (CONT.)

05500.V0 FLOOR PLATE
05500.X1 STEEL STUD (RE:STRUCTURAL)
05500.X2 STEEL RUNNER (RE:STRUCTURAL)
05500.Y0 ROUGH HARDWARE – GALVANIZED
05500.Z0 CHAIN – GALVANIZED

05510 METAL STAIRS

05510.A1 LADDER RUNGS
05510.B0 LADDER RAILS
05510.C0 LADDER MOUNTING BRACKET
05510.D1 RUBBER SHOE AT BOTTOM OF EACH RAIL
05510.E1 NON SKID SURFACE @ NOSING
05510.F0 STEEL STRINGER – (SIZE)
05510.F1 STEEL STRINGER – (SIZE) – GALVANIZED
05510.G1 3/16" STEEL CLOSURE PLATE – GALVANIZED
05510.H0 CONC. FILLED METAL PAN STAIR – GALVANIZED
05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD – (SIZE) – GALVANIZED
05510.J1 METAL PAN STAIR SUPPORT – (SIZE) – GALVANIZED
05510.J2 PAN ANCHORAGE – (SIZE) – GALVANIZED
05510.K1 STEEL CHANNEL DECK SUPPORT – GALVANIZED

05521 PIPE & TUBE RAILINGS

05521.A1 1 1/2" O.D. STEEL GUARDRAIL
05521.A2 PIPE GUARDRAIL (DIAMETER) – GALVANIZED
05521.A3 1 1/2" O.D. PIPE GUARDRAIL – GALVANIZED
05521.B1 1 1/2" O.D. HANDRAIL
05521.B2 PIPE HANDRAIL (DIAMETER) – GALVANIZED
05521.B3 1 1/2" O.D. PIPE HANDRAIL – GALVANIZED
05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)
05521.D1 PIPE RAIL SUPPORT – GALVANIZED
05521.E1 1" I.D. PIPE RAILING ANCHOR – GALVANIZED
05521.F1 1/2" DIA. THRU BOLT

05530 GRATINGS

05530.A0 TRENCH FRAME – GALVANIZED
05530.A1 STEEL GRATE 22-W-4 (SIZE) GALVANIZED
05530.B0 ALUMINUM BAR PANELS
05530.C1 METAL GRATE PANEL – GALV.
05530.C2 METAL GRATE TREAD – GALV.

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2 BLOCKING AS REQUIRED
06105.P1 2X4
06105.P2 2X6
06105.P6 4X4
06105.P9 2 x FRAMING, FIRE TREATED
06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE)
06105.Q2 SHIM AS REQUIRED
06105.R2 SHEATHING – PLYWOOD (THICKNESS) GRADE (SIZE)
06105.R3 PROTECTION BOARD (THICKNESS)
06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS)
06105.V6 PEGBOARD (THICKNESS)
06105.Z0 ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0 SILL
06402.A1 3/4" PAINTED WOOD SILL
06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.C1 PAINT GRADE WOOD CAP (THICK)
06402.H0 SHELF(VES)
06402.H1 ADJUSTABALE SHELVES (FINISH)
06402.H2 SHELVING (DEPTH)
06402.K0 BASE UNIT (FINISH)
06402.K2 BASE UNIT W/ADJ. SHELF(VES) (FINISH)
06402.K3 BASE UNIT W/DRAWERS (FINISH)
06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(VES) (FINISH)
06402.L2 WALL UNIT W/ADJ. SHELF(VES) (FINISH)
06402.P0 COUNTERTOP
06402.P2 COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
06402.X0 WORKBENCH (DEPTH)

06651 SOLID SURFACE FABRICATIONS

06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07901 JOINT SEALANTS

07901.A0 CONT. SEALANT
07901.B0 ASPHALT SATURATED FIBERBOARD
07901.C0 CONT. CAULK
07901.D0 JOINT FILLER
07901.G0 BACKER ROD
07901.H1 5/8" BEAD OF DE NEFF SWELLSEAL WA MASTIC
07901.H2 CONCENTRATED DRY PAC
07901.H3 CONCENTRATED SLURRY COAT

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0 PRESSED METAL FRAME
08111.A1 GROUT-FILLED PRESSED METAL FRAME
08111.B0 HOLLOW METAL DOOR
08111.C0 JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0 OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0 WEATHERSTRIPPING
08360.D0 DOOR GUIDE

08520 ALUMINUM WINDOWS

08520.A0 WINDOW UNIT
08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08520.M0 SILL STARTER, SET IN SEALANT
08520.P0 BREAKMETAL
08520.Q0 WEATHERSTRIPPING
08520.R0 ALUMINUM FLASHING, FINISH TO MATCH WINDOW FRAME

08521 HORIZONTAL SLIDING VINYL (PVC) WINDOWS

08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

08710 DOOR HARDWARE

08710.A0 THRESHOLD
08710.B0 DOOR SWEEP
08710.C0 WEATHERSTRIPPING

08800 GLAZING

08800.C0 WIRE GLASS
08800.G1 CLEAR INSULATING GLASS (SIZE)
08800.G3 OPAGUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A1 GYPSUM BOARD (THICKNESS)
09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2 TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.C3 CEMENT BOARD (THICKNESS)
09255.H0 METAL STUD
09255.H1 METAL STUDS (SIZE, SPACING)
09255.J0 METAL RUNNER
09255.K0 DOUBLE STUDS
09255.K1 DOUBLE STUDS (GAGE)
09255.L1 7/8" X 1-3/8" METAL ANGLE
09255.L2 2-1/2" X 2-1/2" METAL ANGLE
09255.M2 METAL CORNER BEAD (TYP)
09255.P0 Z-FURRING CHANNEL
09255.Q0 7/8" METAL FURRING CHANNEL
09255.R2 CHANNEL (SIZE, SPACING)
09255.S1 8 GA. WIRE HANGERS (SPACING)
09255.S2 18 GA. WIRE TIES
09255.S3 18 GA. METAL MOUNTING STRIPS
09255.S4 14 GA. STAINLESS STEEL COUNTER TOP (FINISH)
09255.U1 SUSPENDED CEILING SYSTEM
09255.V0 EDGE TRIM (TYP)
09255.V2 LC-BEAD (PREFERRED USG 200-A TRIM)
09255.V4 VINYL TRIM

09300 TILE

09300.A1 FLOOR TILE – SEE FINISH SCHED.
09300.B1 WALL TILE – SEE FINISH SCHED.
09300.C0 TILE BASE
09300.D1 BULLNOSE TRIM UNIT
09300.E1 1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHED.
09300.G1 MORTAR BED
09300.G4 WATERPROOF MEMBRANE

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE
09660.B1 VINYL TRANSITION STRIP

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1 PAINT – SEE FINISH SCHED.

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0 MARKER BOARD

10425 SIGNS

10425.A0 ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0 METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0 TOILET TISSUE DISPENSER
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0 MOP RACK
10800.E0 GRAB BAR
10800.E1 GRAB BAR (SHOWER)
10800.F0 ROBE HOOK
10800.F1 DOUBLE PRONG ROBE HOOK
10800.H0 SOAP DISPENSER
10800.H1 SOAP DISH
10800.P1 SHOWER CURTAIN ROD
10800.P2 SHOWER CURTAIN
10800.R1 FRAMED MIRROR (SIZE)
10800.T1 FOLDING SHOWER SEAT
10800.T0 METAL SHELF (SIZE)

DIVISION 11 EQUIPMENT

11151 MOBILE LIFT

11151.A0 MOBILE LIFT – NIC – OWNER FURNISHED

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 13 SPECIAL CONSTRUCTION

13125 METAL ARCH BUILDING SYSTEM

13125.A0 METAL ARCH BUILDING SYSTEM
13125.B0 STANDING SEAM METAL ROOF
13125.B1 STANDING SEAM METAL ROOF RIDGE
13125.B2 STANDING SEAM METAL CANOPY
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.C3 GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D0 METAL FLASHING
13125.D1 METAL DRIP FLASHING
13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D4 METAL FLASHING, FINISH TO MATCH ROOF PANELS
13125.D5 RIDGE FLASHING, TO MATCH ROOF PANELS
13125.D6 DOOR HEAD FLASHING
13125.D7 JAMB FLASHING
13125.D8 CONTINUOUS PRE-FINISHED SHEET METAL CLOSURE
13125.E0 METAL TRIM
13125.E1 JAMB TRIM
13125.E2 PANEL TRIM
13125.E3 RAKE TRIM
13125.E4 RAKE SLIDE
13125.E5 METAL EAVE CLOSURE
13125.E6 WALL CLOSURE
13125.E7 METAL OUTSIDE CLOSURE
13125.E8 CORNER TRIM
13125.E9 FRAMED OPENING HEADER
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.F3 POP RIVET
13125.G0 STANDING SEAM METAL FACIA
13125.H0 BREAK METAL
13125.H1 METAL ANGLE
13125.H2 HIGH RAKE SUPPORT ANGLE
13125.H3 RAKE ANGLE
13125.H4 4" x 4" CONT. ANGLE
13125.H5 BACKUP PLATE ANGLE
13125.H6 EAVE SUPPORT ANGLE
13125.H7 EAVE STRUT

13125 METAL ARCH BUILDING SYSTEM (CONT.)

13125.J0 STRUCTURAL MEMBER – PRIMED AND PAINTED
13125.J1 STRUCTURAL GIRT – PAINTED
13125.J2 ROOF PURLIN – PAINTED
13125.J3 STRUCTURAL GIRT
13125.K0 CLIP
13125.K1 LOW PANEL CLIP
13125.L1 STEEL COLUMN – PAINTED
13125.L2 STEEL COLUMN – GALV. – PAINTED
13125.L3 STEEL COLUMN – GALVANIZED
13125.L4 STEEL COLUMN – PRIMED AND PAINTED
13125.M1 STEEL BEAM – PAINTED
13125.M2 STEEL BEAM – GALV. – PAINTED
13125.M3 STEEL BEAM – GALVANIZED
13125.M4 STEEL BEAM – PRIMED AND PAINTED
13125.N1 ANCHOR
13125.N2 FASTENER (SPACING)
13125.P1 DOUBLE BEAD TAPE SEALER
13125.P2 SEALANT
13125.P3 THERMAL BREAK
13125.Q0 METAL VENT
13125.Q1 VENT MATERIAL
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

DIVISION 14 CONVEYING SYSTEMS

14620 TROLLEY HOIST

14620.A0 TROLLEY HOIST (SIZE) – RE: STRUCTURAL

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15050.A1 MECH. PENETRATIONS
15251.A1 PIPE INSULATION AT ALL EXPOSED PIPE
15410.A0 URINAL
15410.A1 URINAL, ACCESSIBLE
15410.B0 SINK FAUCET
15410.B1 SINK FAUCET W/ADA LEVER HANDLES
15410.C0 UTILITY SINK
15410.D1 FLOOR SINK
15410.E0 TRENCH DRAIN
15410.E1 DRAIN W/ SEDIMENT BUCKET
15410.E2 FLOOR DRAIN
15410.F0 TOILET
15412.A0 EMERGENCY SHWR & EYE WASH
15452.A1 DRINKING FOUNTAIN
15460.A1 GAS FIRED WATER HEATER
15490.A0 WASTE OIL PUMP
15490.B0 WASTE OIL CARTS
15490.C0 WASTE OIL PIT
15490.D0 600 GAL WASTE OIL TANK – O.F.C.I.
15491.A0 AIR COMPRESSOR
15491.B0 OVERHEAD LUBE REEL
15491.C0 OVERHEAD HOSE REEL
15600.A0 NATURAL GAS RADIANT HEATING SYSTEM
15611.A1 PROPANE FIRED FURNACE
15838.A0 EXHAUST FAN
15887.A1 LOUVER W/ BIRD SCREEN

DIVISION 16 ELECTRICAL

16442 PANELBOARDS

16442.A0 ELECTRICAL PANEL

16510 INTERIOR LIGHTS

16510.A0 INTERIOR LIGHTS

16520 EXTERIOR LIGHTS

16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

CLIENT

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
1/23/07
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

MASTER
KEYNOTE LIST

G002

GENERAL NOTES:

1. Utah Department of Transportation, DFCM and the Architect have jurisdiction over this project. Contractor shall obtain all necessary permits and business licenses prior to construction. Permits shall include, but not be limited to water, sewer, curb & gutter, storm water and grading.
2. Contractor is responsible for dust abatement and any liability issues related to dust at any location which may be caused by this project.
3. The Contractor is responsible for traffic control and protection of pedestrians in and around this work. Reference the manual on uniform traffic control devices (MUTCD latest edition for work zone traffic control). Warning and/or danger signs shall be required. Such flagmen or personnel as is necessary shall be readily available, especially when loaded or unloaded trucks- equipment are ingressing or egressing onto the job site. The contractor shall use the suggested traffic control plan, if included in plans, or submit a plan of his/her own for approval by the Engineer and/or the Owner and other regulator agencies.
4. Any work done within a public right-of-way shall be coordinated with the appropriate transportation agency and shall meet the requirements of that agency and, in particular, requirements of any right-of-way special use permit, or other permit. All work shall meet current OSHA requirements.
5. Where work is performed on easements, the contractor shall take every precaution to eliminate any adverse effects on the adjacent property and/or to restore it to its original condition.
6. All distances and data shall be checked by the contractor prior to the start of construction. In case of conflict the engineer shall be notified immediately so that clarification may be made prior to the start of the work.
7. The contractor shall be responsible for disposal and fees of all materials removed or demolished on site.
8. The Contractor shall arrange for, secure and pay for directly, any and all temporary utility supplies it may require for prosecution of its work. The cost of such utilities shall be included in the appropriate bid item with which it is associated.
9. Should construction be halted because of inclement weather conditions, the Contractor will completely clean up all areas and maintain the surface in good condition during the shut-down period. No excavation in paved streets will be allowed if weather conditions do not permit repaving of the pipeline trench.
10. The Contractor's personnel, equipment, and operations shall comply fully with all applicable standards, regulations, and requirements of existing Federal, Utah State, and Local governmental agencies.
11. No person shall be cut off from access to his residence or place of business for a period exceeding eight (8) hours, unless the Contractor has made special arrangements with the affected persons prior to commencing work in the area.
12. The Contractor shall preserve existing City, County, State, and Federal land monuments whenever possible. If a monument must be moved the engineer shall be contacted 2 weeks prior to removal to arrange for relocation.
13. The Contractor shall be responsible for obtaining all local, State, and Federal permits required for stormwater pollution prevention as a result of construction activities. When called for in the Contract Documents, the Contractor shall prepare a Stormwater Pollution Prevention Plan for approval by the Engineer. If the construction will disturb more than one acre, the Contractor shall obtain a copy of the U.S. Environmental Protection Agency's NPDES General Permit for Storm Water Discharges Associated with Construction Activity (otherwise known as the Construction General Permit or CGP) and submit a "Notice of Intent" (NOI)[EPA Form 3510-9 (6/03)] for permit coverage under the General Permit. The CGP may be found on the Internet at <http://www.epa.gov/npdes/stormwater/cgp> or by contacting the U.S. EPA Office of Water directly at (800) 424-4372. The NOI may be filed electronically at the following website: <http://cfpub.epa.gov/npdes/stormwater/enoi.cfm>. The CGP does not relieve the Contractor from compliance with other regulations or contract requirements regarding stormwater pollution prevention including but not limited to: protection of surface waters, prevention of soil runoff into drains, dust control, prevention of tracking soils to adjacent streets, fuel containment, spill control, etc.

EXISTING UTILITES

1. Approximate locations of utilities are shown on the plans. They are to be used for general information only. It is the responsibility of the contractor to notify the appropriate utility companies when construction might interfere with normal operation of any utilities. It shall also be the contractor's responsibility to have the appropriate utility company field-locate any utility installations which might be affected by construction prior to beginning work in that area. The contractor shall be responsible for maintaining service of existing utilities and for restoring any utilities damaged due to construction at no additional cost to the owner. Depths and elevations of utilities are unknown unless otherwise shown. Contractor shall field verify utility depths, elevations, any discrepancies and/or conflicts shall be brought to the attention of the Engineer immediately.

INSPECTIONS AND TESTING

1. The Owner shall be responsible for all materials testing including but not limited to concrete, asphalt, compaction, sewer and water. All tests shall meet minimum Engineer requirements. See the contract documents and drawings for frequency of testing. Results are to be delivered to Special Inspector, Owner and Architect.
2. Pressure, deflection and other tests relating to pipeline installation shall be paid for and performed by the Contractor.
3. The Contractor is responsible to coordinate with Architect and Special Inspector for inspections of work at appropriate intervals. It shall be the Contractor's responsibility to pay for additional inspections that are the result of his workmanship.
4. The Contractor is responsible for sewage & drainage tests.

TRENCH EXCAVATION AND BACKFILL - Unless noted otherwise in the Project Specifications, these requirements apply.

1. Barriers shall be placed at each end of all excavations and at such places as may be necessary along excavations to warn all pedestrians and vehicular traffic of such excavations. Lights shall also be placed along excavations from one hour before sunset each day to one hour after sunrise of the next day until such excavations are entirely refilled, compacted, and surfaced or final graded. All excavations shall be barricaded in such a manner as to prevent persons from falling, walking, or otherwise entering any excavation in any street, roadway, parking lot, treatment plant or any other area, public or private.
2. Excavations shall be sheeted, braced, and shored as required to support the walls of the excavations, to eliminate sliding and settling and as may be required to protect the workmen, the work in progress, and existing utilities, structures and improvements. All such sheeting, bracing, and shoring shall comply with the requirements of the Utah State Industrial Commission, Occupational Safety and Health Act (OSHA), and accident prevention and safety provisions of the contract.
3. All trenches shall be kept free from water during excavation, fine grading, pipe laying and jointing, and pipe embedment operations.
4. No sanitary sewer shall be used for disposal of trench water. Surface water shall be prevented from entering trenches.
5. All backfill and compaction shall be completed within a maximum distance of 200 feet behind the end of newly installed pipe.
6. Excavation shall be not more that 200 feet ahead of the newly installed pipe. The Contractor shall restore the asphalt surface where the utilities cross existing asphalt.
7. The minimum clear trench width at the horizontal diameter of the pipe must not be less than the outside diameter of the pipe plus twelve-inches (12").
8. Gradation. Imported granular material shall conform to the following gradation specifications:

Granular Foundation Material:

One hundred percent passing a one-inch screen and five percent passing a one/half-inch screen.

Granular Bedding Material:

Ductile iron or concrete pipe - One hundred percent (100%) passing a one-inch screen and five percent passing a No. 4 sieve.

PVC pipe - One hundred percent passing a three/quarter-inch screen and five percent passing a No. 4 sieve.

Copper tubing/PE pipe - One hundred percent passing a No. 4 sieve and eight percent passing a No. 200 sieve.

Granular Backfill material:

One hundred percent passing a three-inch square sieve and fifteen percent passing a No. 200 mesh sieve.

9. Under pavements or other surface improvements the in-place density shall be a minimum of ninety-six percent (96%) of laboratory standard maximum dry density as determined by AASHTO T-99. In shoulders and other areas the in-place density shall be a minimum of ninety percent (90%) of the maximum dry density as determined by AASHTO T-99. The backfill in the trenches shall be either compacted or consolidated according to the requirements of the materials being placed.
10. Where compaction methods are used, the material shall be placed at a moisture content and un-compacted lift thickness such that after compaction the required relative densities will be produced. In no event will the material be placed in lifts which, prior to compaction, exceed eight inches (8").

PIPE-GENERAL

1. All pipe lines are to be located as shown on the plans unless relocated in the field by the Engineer to avoid unforeseen utility interference.
2. Minimum clearance between new pipelines and existing utilities and structures (except sewers) shall be two feet horizontally.
3. Contractor shall provide all necessary fittings, hardware, labor, etc. To construct vertical and horizontal bends in pipe as needed to meet the required grade, alignment, and cover requirements.
4. For connections to existing sewer lines, contractor shall field verify all pipe diameters, pipe materials, and appurtances for confirmation of the required fittings prior to ordering fittings.
5. Dimensions to pipelines are to centerline unless otherwise noted.
6. Distances shown along pipelines are horizontal distances and not pipe length.
7. Wherever the subgrade material does not afford a sufficiently solid foundation to support the pipe and superimposed load, or where groundwater must be drained, the subgrade shall be excavated to such depth as may be necessary and replaced with Gravel Foundation Material.
8. All pipe shall be protected from lateral displacement and possible damage resulting from impact or unbalanced loading during backfilling operations by being adequately bedded.
9. Where applicable, bell holes shall be excavated so that only the barrel of the pipe receives bearing from the trench bottom.
10. In the event trench materials are not satisfactory for pipe bedding, modified bedding will be required. Modified bedding shall consist of placing compacted granular material on each side of and to the level of twelve-inches (12") above the top of the pipe.

PIPE FITTINGS

1. All pipe fittings shall conform to AWWA standards.
2. All buried valves shall be installed complete with two-piece, cast iron, screw type, 5-1/4-inch shaft valve box with lid. The lid shall have the word "Water" cast in the metal.
3. All valve boxes in paved areas shall contain a concrete 6" thick concrete collar 24 inches larger in diameter than the valve box. This collar shall contain (1) #4 rebar at the center of the collar.

PRESSURE PIPE

1. Contractor shall coordinate all live taps and any other work on or manipulation of the existing water system with the engineer and city. Coordinate connections to the water system with Kenny Gillette, UDOT Maintenance Shed Foreman, (435) 882-1378.
2. Minimum depth of cover for culinary water lines unless otherwise shown on the plans shall be four (4) feet.
3. All pipe shall include a 3-inch magnetic locator tape installed in the pipeline trench approximately 12-inches below the ground surface. Identification tape shall be furnished with white or black printing on an approved colored field having the words:

CAUTION: UTILITY DESCRIPTION - BELOW.

4. All gate valves shall be located near to tees or crosses and their associated reducers as shown on the project plans.
5. Thrust blocking shall be applied at all tees, valves, plugs, caps and at bends deflecting 11 1/4 degrees or more. The fitting shall be encased in a protective plastic wrap before the thrust block is poured. Reaction blocking shall be concrete having a compressive strength of not less than 3000 pounds per square inch at 28 days. Blocking shall be placed between undisturbed soil and the fitting to be anchored. The area of bearing on the pipe and on the ground shall be as shown in the Drawings. The blocking shall be so placed that the pipe and the fittings will be accessible for repair.
6. There shall be 10 feet minimum of horizontal separation distance between all new water lines and new sewer lines. Exceptions occur where service lines are installed in a common trench and at crossings. Building water and sewer services may be installed in the same trench if it is placed on a solid shelf excavated at one side of the common trench. A minimum of 12 inches of vertical separation shall be maintained at all locations. Joints in water pipe should be 10 feet from crossings with sewer. Sewer within 10 feet of such crossings shall be mechanical joint cast iron or equal.
7. All crosses and tees shall be installed with the branches having the size of the largest intersecting pipe unless otherwise shown. The connections to smaller lines shall then be made by means of reducers from the tee or cross, unless otherwise shown on plans.
8. All air release and combination air valves shall be installed at the crest of the vertical curvature of the water line. Contractor shall record actual field stationing on record drawings.
9. All pipe shall be pressure tested as required in the specifications.
10. Culinary water lines shall be disinfected per the specifications and AWWA requirements.

GRAVITY PIPE

1. Minimum depth of cover for sewer lines unless otherwise shown on the plans shall be four (4) feet.
2. All concrete pipe shall be installed accurately to the defined line and grade shown on the plans. Pipe shall be laid in a straight horizontal and vertical line between manholes or junction boxes.
3. Gravity pipe lines shall be tested per the specifications.
4. Install pipe downstream to upstream.

MISCELLENEOUS UTILITES

1. All utility conduits shall be schedule 40 with long sweeps.
2. All utilities shall be buried a minimum of 36 inches below finished grade
3. All phone and communication lines to be placed in conduit under paved surfaces unless noted on the plans
4. Direct bury telephone and communication lines shall be surrounded by 6 inches of sand.
5. A minimum clearance of 24 inches shall be maintained between power conduits and other communication utilities.
6. Install a pull string with a 800 # capacity in all blank conduits.

EARTHWORK

1. The material shall be deposited in horizontal layers having a thickness of not more than eight inches prior to being compacted as hereinafter specified;
2. The moisture of compacted material shall be controlled at two percent plus or minus of the optimum moisture as determined by AASHTO T-180.
3. When the material has been conditioned as hereinbefore specified, the backfill or embankment shall be compacted as follows:
(a) Under roadways and extending one foot beyond the proposed back of walk, the fill or embankment material shall be compacted to a density equal to not less than 96% of maximum dry density as measured by AASHTO T-180.
(b) Under sidewalks and drive approaches the fill or embankment material (to at least one foot each side of the edge of the slab) shall be compacted to a density equal to not less than 96% of maximum dry density, as measured by AASHTO T-180.
(c) Other fills and embankments not listed above shall be compacted to a density equal to not less than 90% of maximum dry density, as measured by AASHTO T-180.

CONCRETE

1. All concrete required on this project shall be as noted in section 3300 of the project specification or other mix design approved by engineer.
2. Portland cement shall be Type II and shall comply with the Standard Specification for Portland Cement, ASTM C-150.
3. Deformed Billet-Steel Bars for Concrete Reinforcement (Grade 40 or Grade 60) - ASTM Designation A-615.
4. All bars shall be of the size specified and shall be placed in the positions shown on the Drawings in such a manner as to be firmly held during the placing of the concrete. Where not otherwise indicated, minimum clearance and cover as required by the ACI 318 Code, latest edition.
5. Metal ties or anchorages within the forms shall be equipped with cones, she-bolts or other devices that permit their removal to a depth of at least one inch without injury to the concrete.
6. All edges that will be exposed to view when the structure is completed shall be chamfered by placing molding in the forms, unless finishing with molding tools.

CONCRETE FINISH

1. All exposed vertical exposed surfaces shall receive a sack rubbed finish.
2. All non-exposed vertical exposed surfaces shall have ties and forming devices removed and remaining holes packed with a cement mortar mix.
3. All exposed horizontal surfaces on the concrete shall be accurately screeded to grade, floated, then broom finished, unless specified otherwise.
4. Joints and edges on unformed surfaces that will be exposed to view shall be chamfered or finished with molding tools.
5. Concrete shall not be mixed nor placed when the daily minimum atmospheric temperature is less than 40 degrees unless facilities are provided to prevent the concrete from freezing. The use of accelerators or antifreeze compounds will not be allowed.

SURFACE IMPROVEMENTS

1. The contractor shall retain and protect or remove and replace all landscaping, trees, utilities, ditches, culverts, fences, mailboxes, signs, lightpoles, headgates, existing concrete sidewalks, approaches, curb & gutter and other miscellaneous items. Any damage done by the contractor shall be repaired at his expense.
2. Construction of curb, gutter and sidewalk shall follow installation of storm drain/utilities improvement. Preparation of the area to be paved shall follow completion of the curb, gutter and sidewalk.
3. Sidewalk, curb and gutter, and concrete driveways shall be saw-cut vertically along the lines forming the mainline trench, in such a manner as to not cause damage to adjoining improvements.
4. Materials used for repair or replacement of surface improvements shall be equal to or better than the material removed.
5. Where trenches are in or cross surfaced roads, traffic lanes, driveways, or parking areas, the surface shall be removed, maintained, and restored to original condition or better.
6. All edges of trenches in paved areas shall be sawcut a minimum of 6 inches wider than the width disturbed by the trench excavation prior to placing asphalt patch.
7. Stockpiled topsoil shall be placed over areas disturbed by construction activities.
8. The Contractor shall grade the site to the finished contours shown on the Drawings. The Contractor shall run a track dozer or loader up and down the slopes to create longitudinal depressions in the finished surface to resist erosion and assist seed germination.
9. On sloping hillsides, contractor shall take precautions to mitigate possible erosion problems in the trench from storm water that might occur during or after construction.
10. The Contractor shall revegetate the areas on which topsoil has been placed.

PAVEMENT CONSTRUCTION

1. The Contractor is responsible for the disposal of paving material to be removed from the site. The Contractor shall be responsible to obtain a site permit and any permits or other approvals necessary for disposal of the excess material.
2. The granular material shall be placed and compacted to not less than 96% maximum dry density as determined by AASHTO T-180.
3. The finished compacted pavement shall have a density of 91% minimum, (no test less than 91% of the density determined in accordance with ASTM D-2041), as determined by ASTM D2170.
4. The contractor is to sawcut asphalt edges immediately prior to paving or patching.

SIGNING

1. All signing to be per UDOT Specification Section 2891
2. Sign panels to be reflective sheeting on aluminum.
3. Legend to be reflective also.
4. Post to be 2" perforated 12 gauge steel.
5. Install per detail on drawings.

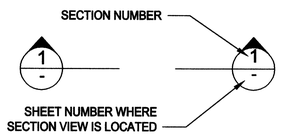
PAVEMENT MARKINGS

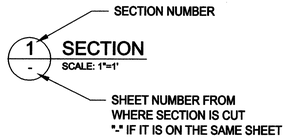
1. Traffic paint to be acrylic latex for uncured paving (7 days old) and alkyd or chlorinated rubber for cured paving. (3 months old)
2. Apply at 180 sq. ft. / gallon for 2 coats.

SECTION AND DETAIL IDENTIFIERS

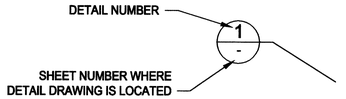
NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

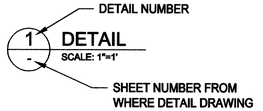
SECTION IDENTIFICATION





DETAIL IDENTIFICATION





UTILITY CONTACT INFORMATION		
ENTITY	CONTACT PERSON	PHONE
Tooele City Public Works	Cary Campbell	435-843-2130
Tooele City Engineer	Paul Hanson	435-843-2130
Utah Power & Light	Service Coordinator	435-833-7903
Questar Gas	Mike Gill	801-324-3787
Qwest Communications	Jeff Stapley	974-8505
UDOT Shed Foreman	Kenny Gilette	435-882-1378

LINE LEGEND

NEW	EXISTING	
		CENTERLINE
		PROPERTY LINE
		EASEMENTS
4352	4352	CONTOUR
CW	CW	CULINARY_WATER
SW SW	SW SW	SECONDARY_WATER
E	E	ELECTRIC
OHP	OHP	OVERHEAD_POWER
UP	UP	UNDERGROUND_POWER
GAS GAS	GAS GAS	GAS_LINE
SS	SS	SANITARY_SEWER
SD	SD	STORM_DRAIN
T	T	TELEPHONE
UT	UT	UNDERGROUND_TELEPHO
F	F	FIBER_OPTICS
IRR	IRR	IRRIGATION
LD	LD	LAND_DRAIN
TV	TV	CABLE_TV
		DITCH
		CHAINLINK_FENCE
		BARBWIRE_FENCE
		GUARD RAIL
		EDGE OF ASPHALT
		RAILROAD

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10/30/06
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

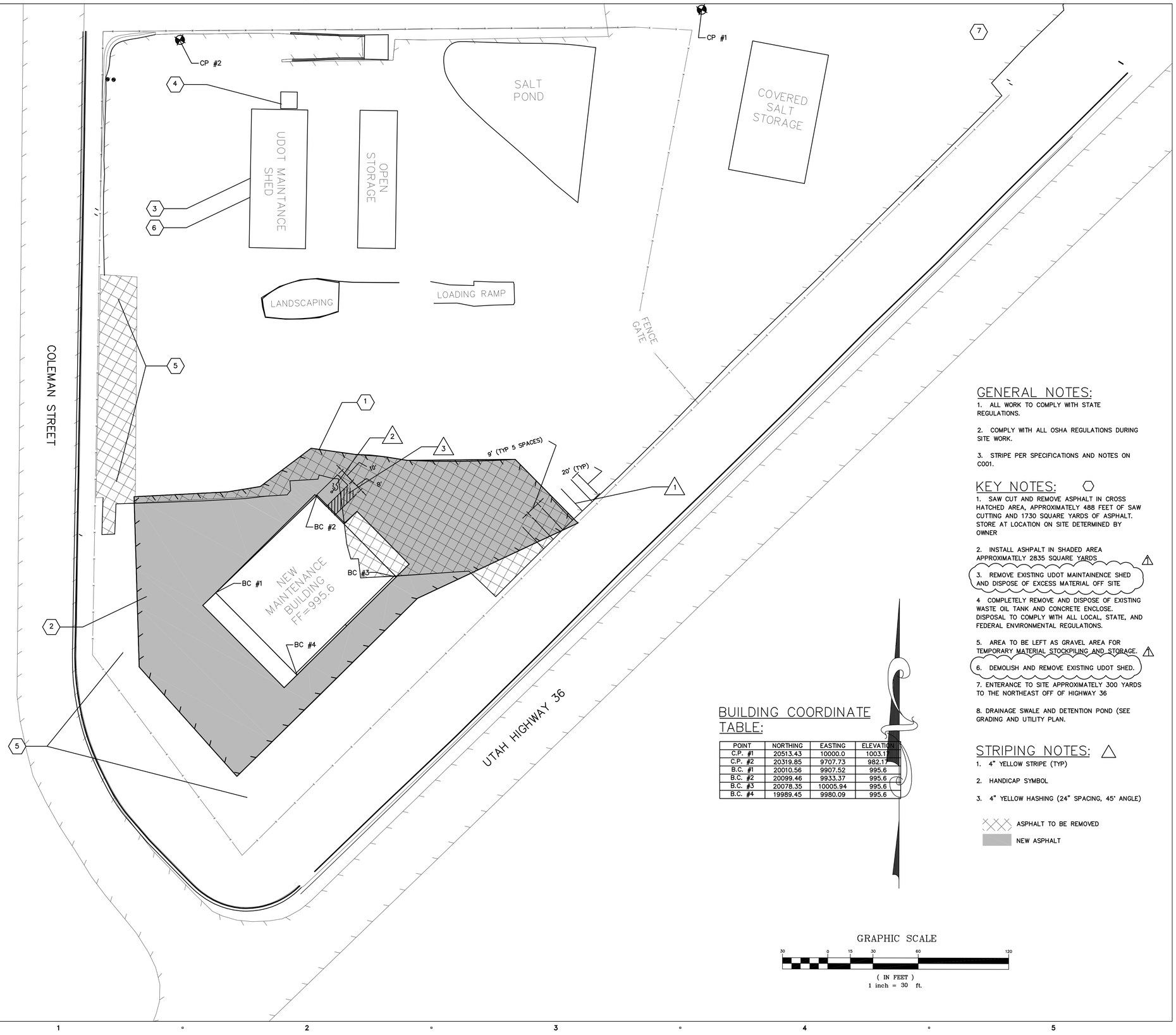
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	
CHECKED BY:	
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

CIVIL NOTES

C001



BUILDING COORDINATE TABLE:

POINT	NORTHING	EASTING	ELEVATION
C.P. #1	20513.43	10000.0	1003.17
C.P. #2	20319.85	9707.73	982.17
B.C. #1	20010.56	9907.52	995.6
B.C. #2	20099.46	9933.37	995.6
B.C. #3	20078.35	10005.94	995.6
B.C. #4	19989.45	9980.09	995.6

GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS.

2. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.

3. STRIPE PER SPECIFICATIONS AND NOTES ON C001.

KEY NOTES:

1. SAW CUT AND REMOVE ASPHALT IN CROSS HATCHED AREA, APPROXIMATELY 488 FEET OF SAW CUTTING AND 1730 SQUARE YARDS OF ASPHALT. STORE AT LOCATION ON SITE DETERMINED BY OWNER

2. INSTALL ASHPALT IN SHADED AREA APPROXIMATELY 2835 SQUARE YARDS

3. REMOVE EXISTING UDOT MAINTAINENCE SHED AND DISPOSE OF EXCESS MATERIAL OFF SITE

4 COMPLETELY REMOVE AND DISPOSE OF EXISTING WASTE OIL TANK AND CONCRETE ENCLOSE. DISPOSAL TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS.

5. AREA TO BE LEFT AS GRAVEL AREA FOR TEMPORARY MATERIAL STOCKPILING AND STORAGE.

6. DEMOLISH AND REMOVE EXISTING UDOT SHED.

7. ENTERANCE TO SITE APPROXIMATELY 300 YARDS TO THE NORTHEAST OFF OF HIGHWAY 36

8. DRAINAGE SWALE AND DETENTION POND (SEE GRADING AND UTILITY PLAN.

STRIPING NOTES:

1. 4" YELLOW STRIPE (TYP)

2. HANDICAP SYMBOL

3. 4" YELLOW HASHING (24" SPACING, 45° ANGLE)

ASPHALT TO BE REMOVED

NEW ASPHALT

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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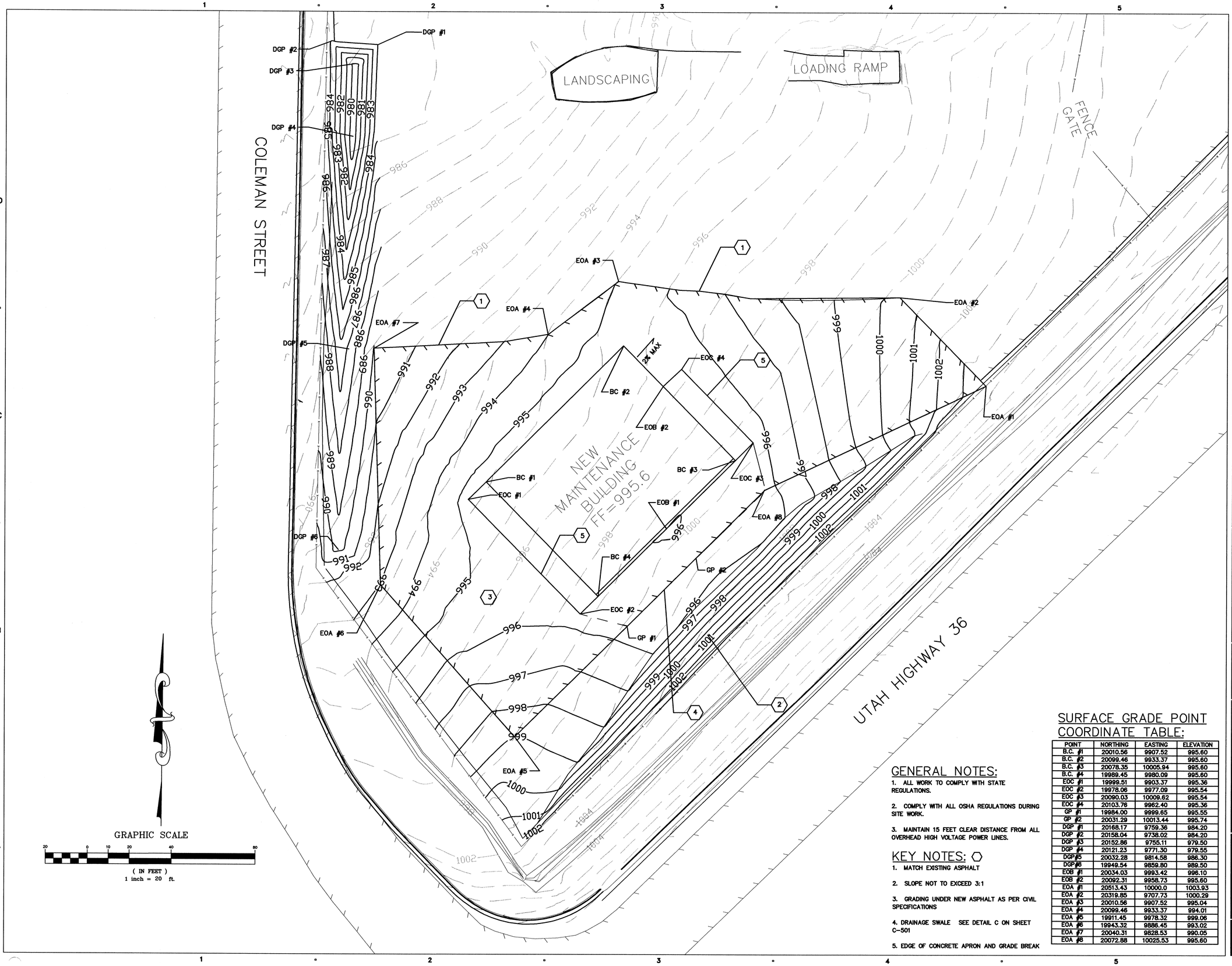
CHECKED BY:	
SCALE:	1/8"=1'-0"
DATE:	MARCH 30, 2007

KEY PLAN

SHEET TITLE

SITE PLAN

C101



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
2. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.
3. MAINTAIN 15 FEET CLEAR DISTANCE FROM ALL OVERHEAD HIGH VOLTAGE POWER LINES.

KEY NOTES: ⬡

1. MATCH EXISTING ASPHALT
2. SLOPE NOT TO EXCEED 3:1
3. GRADING UNDER NEW ASPHALT AS PER CIVIL SPECIFICATIONS
4. DRAINAGE SWALE SEE DETAIL C ON SHEET C-501
5. EDGE OF CONCRETE APRON AND GRADE BREAK

SURFACE GRADE POINT COORDINATE TABLE:

POINT	NORTHING	EASTING	ELEVATION
B.C. #1	20010.56	9907.52	995.60
B.C. #2	20099.46	9933.37	995.60
B.C. #3	20078.35	10005.94	995.60
B.C. #4	19989.45	9980.09	995.60
EOC #1	19999.51	9903.37	995.36
EOC #2	19978.06	9977.09	995.54
EOC #3	20090.03	10009.62	995.54
EOC #4	20103.76	9962.40	995.36
GP #1	19984.00	9999.65	995.55
GP #2	20031.29	10013.44	995.74
DGP #1	20168.17	9759.36	984.20
DGP #2	20158.04	9738.02	984.20
DGP #3	20152.86	9755.11	979.50
DGP #4	20121.23	9771.30	979.55
DGP #5	20032.28	9814.58	986.30
DGP #6	19949.54	9859.80	989.50
EOB #1	20034.03	9993.42	996.10
EOB #2	20092.31	9958.73	995.60
EOA #1	20513.43	10000.0	1003.93
EOA #2	20319.85	9707.73	1000.29
EOA #3	20010.56	9907.52	995.04
EOA #4	20099.46	9933.37	994.01
EOA #5	19911.45	9978.32	999.06
EOA #6	19943.32	9886.45	993.02
EOA #7	20040.31	9828.53	990.05
EOA #8	20072.88	10025.53	995.60

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#353918-2202

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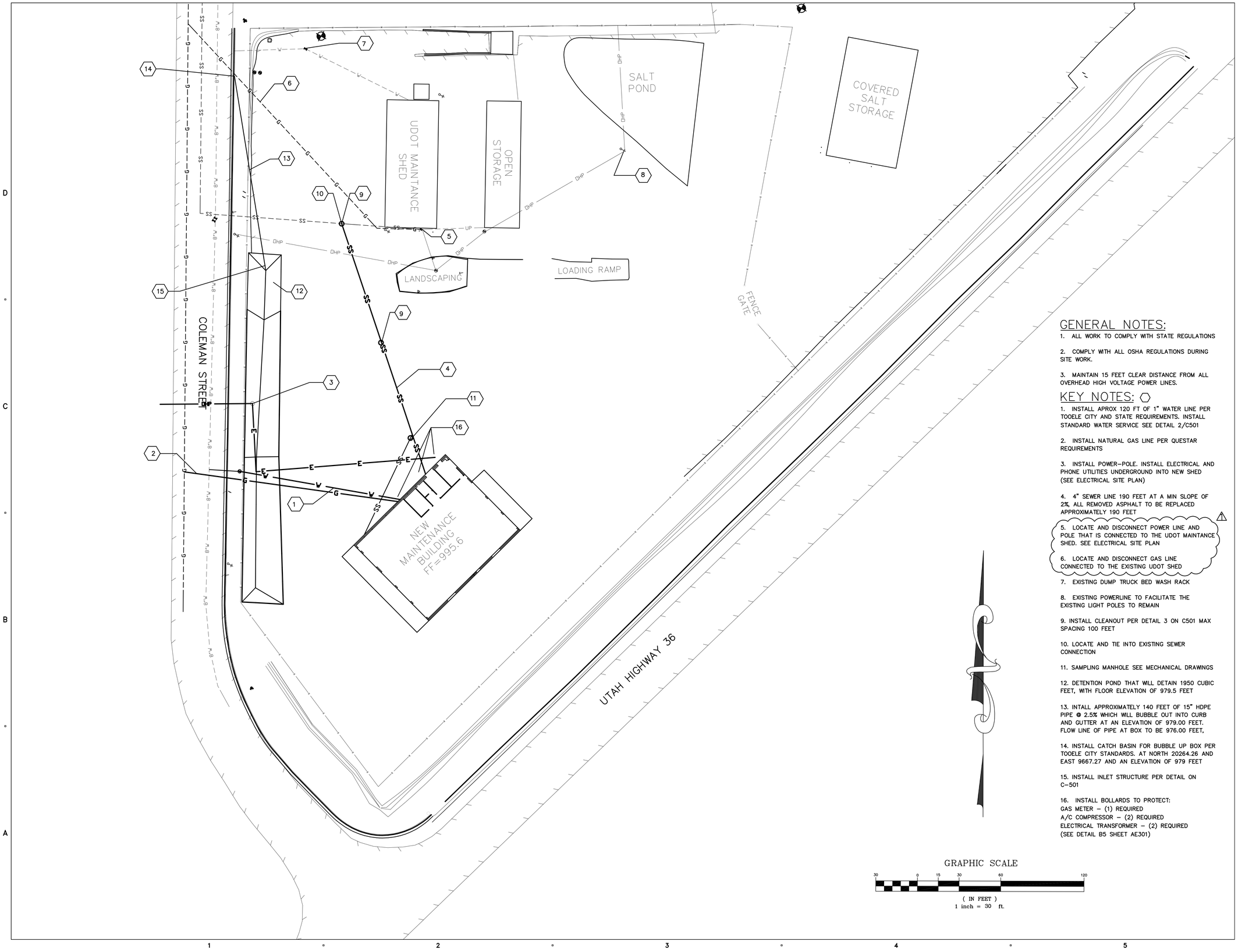
KEY PLAN

SHEET TITLE

GRADING PLAN

C102



GENERAL NOTES:

1. ALL WORK TO COMPLY WITH STATE REGULATIONS

2. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.

3. MAINTAIN 15 FEET CLEAR DISTANCE FROM ALL OVERHEAD HIGH VOLTAGE POWER LINES.

KEY NOTES: ⬡

1. INSTALL APROX 120 FT OF 1" WATER LINE PER TOOELE CITY AND STATE REQUIREMENTS. INSTALL STANDARD WATER SERVICE SEE DETAIL 2/C501

2. INSTALL NATURAL GAS LINE PER QUESTAR REQUIREMENTS

3. INSTALL POWER-POLE. INSTALL ELECTRICAL AND PHONE UTILITIES UNDERGROUND INTO NEW SHED (SEE ELECTRICAL SITE PLAN)

4. 4" SEWER LINE 190 FEET AT A MIN SLOPE OF 2%, ALL REMOVED ASPHALT TO BE REPLACED APPROXIMATELY 190 FEET

5. LOCATE AND DISCONNECT POWER LINE AND POLE THAT IS CONNECTED TO THE UDOT MAINTANCE SHED. SEE ELECTRICAL SITE PLAN

6. LOCATE AND DISCONNECT GAS LINE CONNECTED TO THE EXISTING UDOT SHED

7. EXISTING DUMP TRUCK BED WASH RACK

8. EXISTING POWERLINE TO FACILITATE THE EXISTING LIGHT POLES TO REMAIN

9. INSTALL CLEANOUT PER DETAIL 3 ON C501 MAX SPACING 100 FEET

10. LOCATE AND TIE INTO EXISTING SEWER CONNECTION

11. SAMPLING MANHOLE SEE MECHANICAL DRAWINGS

12. DETENTION POND THAT WILL DETAIN 1950 CUBIC FEET, WITH FLOOR ELEVATION OF 979.5 FEET

13. INTALL APPROXIMATELY 140 FEET OF 15" HDPE PIPE @ 2.5% WHICH WILL BUBBLE OUT INTO CURB AND GUTTER AT AN ELEVATION OF 979.00 FEET. FLOW LINE OF PIPE AT BOX TO BE 976.00 FEET,

14. INSTALL CATCH BASIN FOR BUBBLE UP BOX PER TOOELE CITY STANDARDS. AT NORTH 20264.26 AND EAST 9667.27 AND AN ELEVATION OF 979 FEET

15. INSTALL INLET STRUCTURE PER DETAIL ON C-501

16. INSTALL BOLLARDS TO PROTECT:
GAS METER - (1) REQUIRED
A/C COMPRESSOR - (2) REQUIRED
ELECTRICAL TRANSFORMER - (2) REQUIRED
(SEE DETAIL B5 SHEET AE301)

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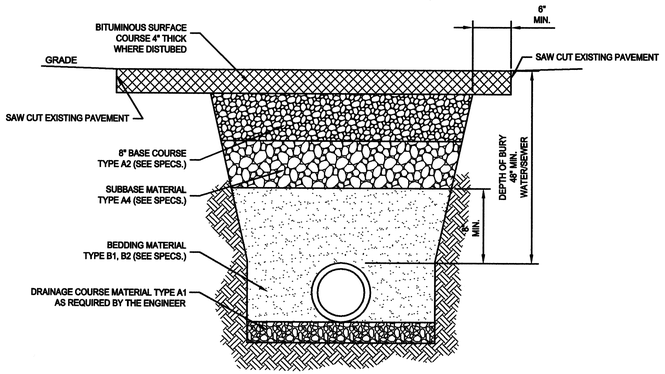
KEY PLAN

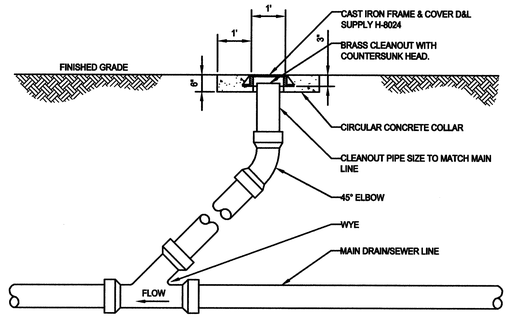
SHEET TITLE

UTILITY PLAN

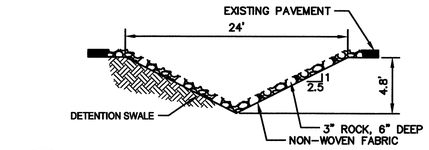
C103



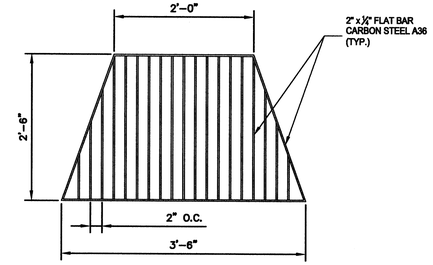
E — TRENCH SECTION (ASPHALT)
SCALE: NTS



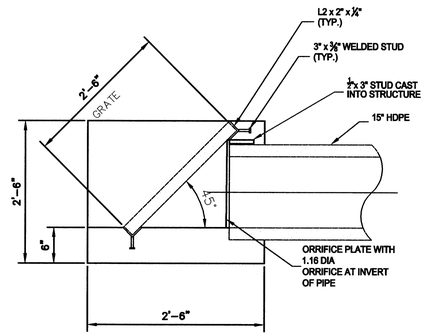
G — SEWER/DRAIN LINE CLEANOUT DETAIL
SCALE: NTS



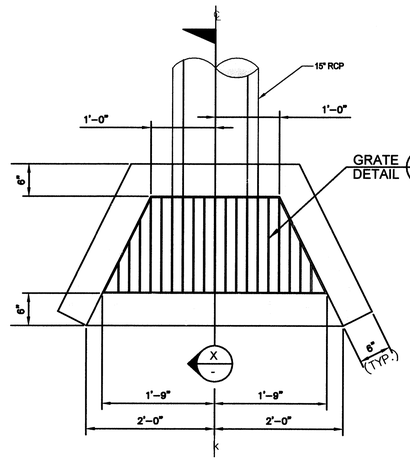
D — DETENTION SWALE SECTION
SCALE: NTS



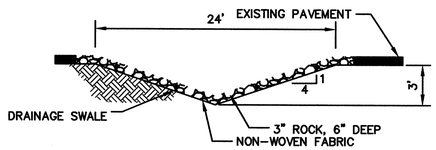
GRATE DETAIL — B
SCALE: 1"=1'-0"



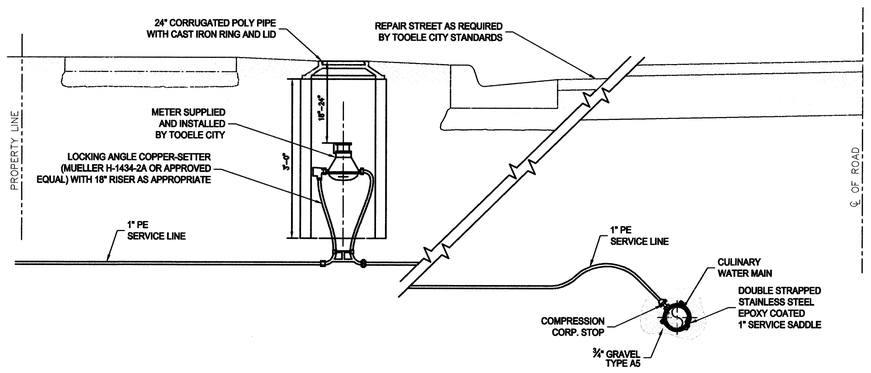
SECTION — F
SCALE: 1"=1'-0"



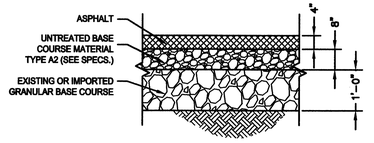
INLET STRUCTURE PLAN — H
SCALE: 1"=1'-0"



C — DRAINAGE SWALE SECTION
SCALE: NTS



I — SERVICE CONNECTION
SCALE: N.T.S.



A — ASPHALT SECTION
SCALE: NTS

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CHECKED BY:	–
SCALE:	1/8"=1'-0"
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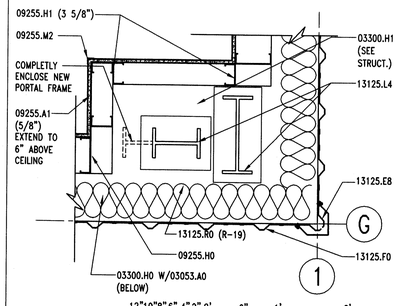
KEY PLAN

SHEET TITLE

CIVIL DETAILS

C501



D1 | COLUMN DETAIL

AE101 | REF. AE101 | SCALE: 1" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C3/AE401

5. SEE SHEET A1/AE501 FOR WALL TYPES.

6. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB, SEE DETAILS A5 & B5/AE301.

7. SEE SHEET AE602 FOR WINDOW FRAME TYPES & DETAILS.

GENERAL NOTES - CONT.

8. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION/CONTROL JOINT LOCATIONS IN CONCRETE SLAB.

9. ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.

10. COORDINATE LOCATION & SIZE OF CONCRETE PIER WITH THE STRUCTURAL ENGINEER AND THE METAL BUILDING MANUFACTURER TO MEET ALL ADA REQUIREMENTS.

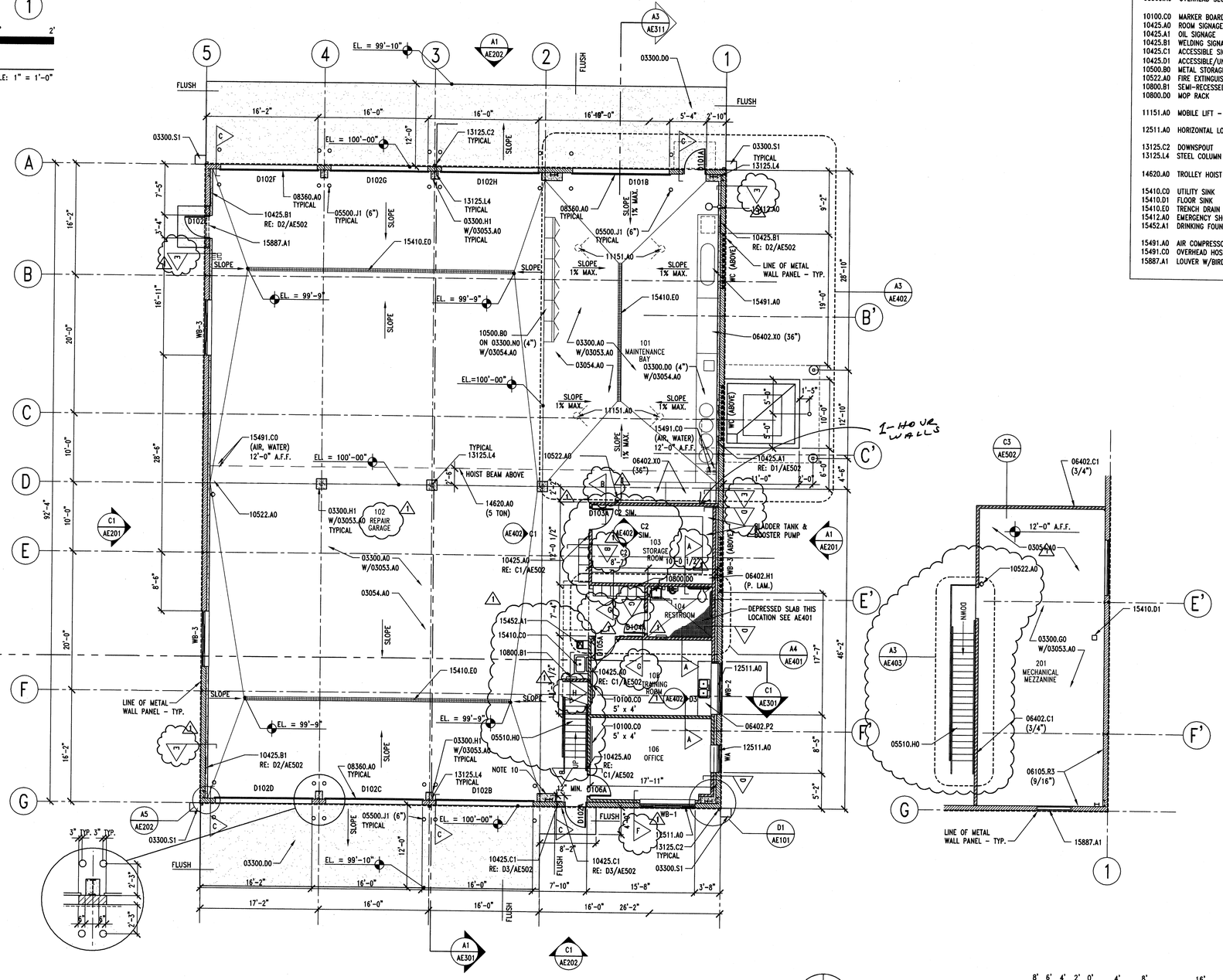
11. COLUMNS SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR TO GET EXACT SIZES AND LOCATIONS FROM APPROVED METAL BUILDING SHOP DRAWINGS.

12. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

13. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101, 102, 103 & CONCRETE MEZZANINE.

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A0	CONCRETE SLAB ON GRADE
03300.D0	CONCRETE PAD
03300.H1	CONCRETE PIER, RE: STRUCTURAL
03300.G0	CONCRETE OVER METAL DECK - RE:STRUCTURAL
03300.N0	CONCRETE CURB
03300.S1	SPLASH BLOCK
05500.J1	PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED
05510.H0	CONCRETE FILLED METAL PAN STAIR - GALVANIZED
06105.R3	PROTECTION BOARD (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.P2	COUNTERTOP - P. LAM. ON 3/4" PLYWOOD
06402.X0	WORKBENCH (DEPTH)
08360.A0	OVERHEAD SECTIONAL DOOR
10100.C0	MARKER BOARD (L X H)
10425.A0	ROOM SIGNAGE
10425.A1	OIL SIGNAGE
10425.B1	WELDING SIGNAGE
10425.C1	ACCESSIBLE SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.B0	METAL STORAGE CABINETS
10522.A0	FIRE EXTINGUISHER
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.D0	MOP RACK
11151.A0	MOBILE LIFT - NIC - OWNER FURNISHED
12511.A0	HORIZONTAL LOUVER BLINDS
13125.C2	DOWNSPOUT
13125.L4	STEEL COLUMN - PRIMED AND PAINTED
14620.A0	TROLLEY HOIST (SIZE) RE: STRUCTURAL
15410.C0	UTILITY SINK
15410.D1	FLOOR SINK
15410.E0	TRENCH DRAIN
15412.A0	EMERGENCY SHOWER & EYE WASH
15452.A1	DRINKING FOUNTAIN
15491.A0	AIR COMPRESSOR
15491.C0	OVERHEAD HOSE REELS
15887.A1	LOUVER W/BIRD SCREEN



A1 | FLOOR PLAN

AE101 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PLAN NORTH / TRUE NORTH

A4 | MECH. MEZZANINE PLAN

AE101 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PROJECT NORTH / TRUE NORTH

1 2 3 4 5

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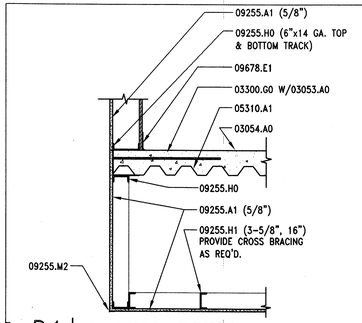
KEY PLAN

SHEET TITLE

FIRST FLOOR AND MEZZANINE PLANS

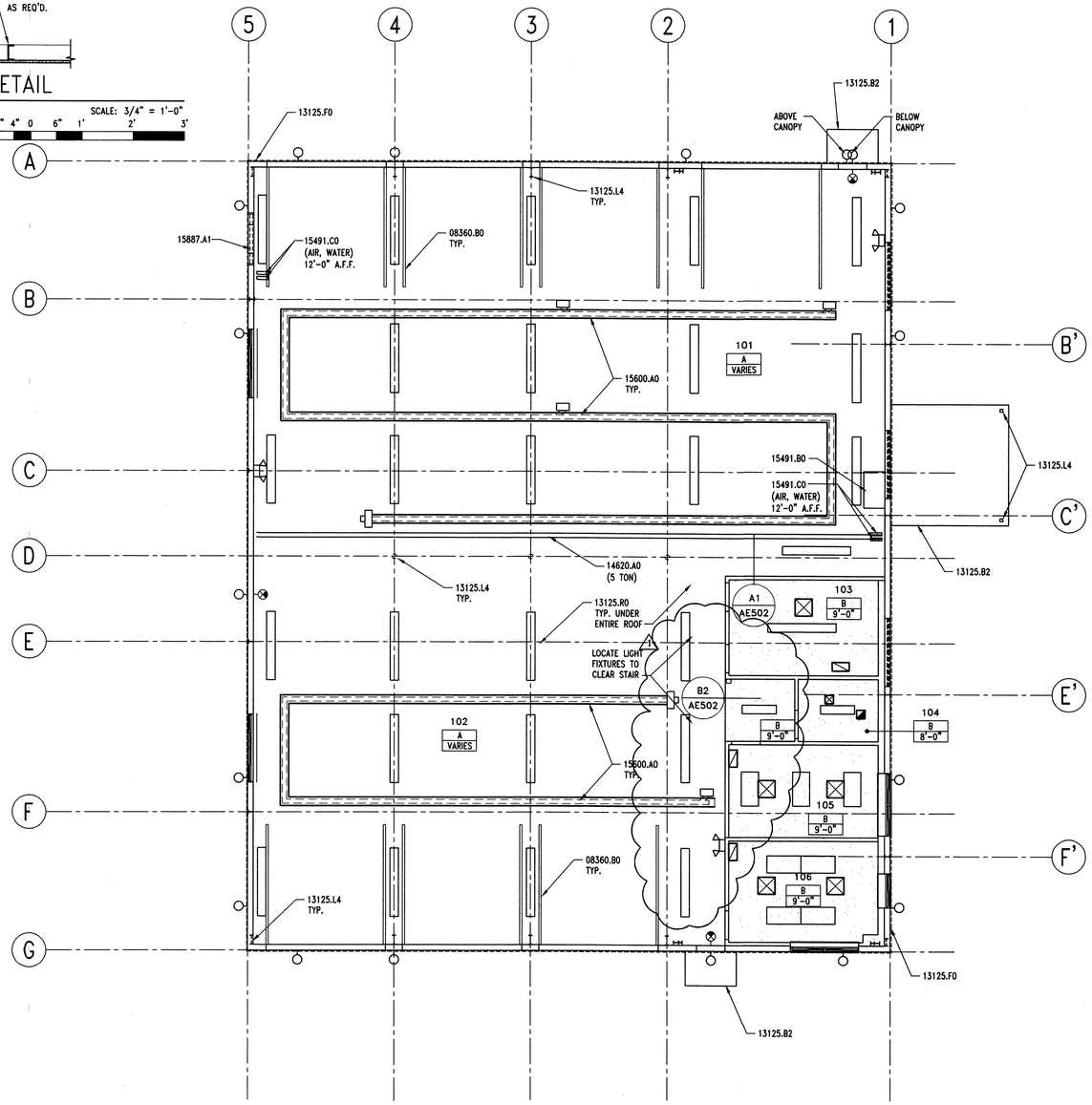
AE101



D1 | CEILING DETAIL

AE121 | REF. AE101 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'



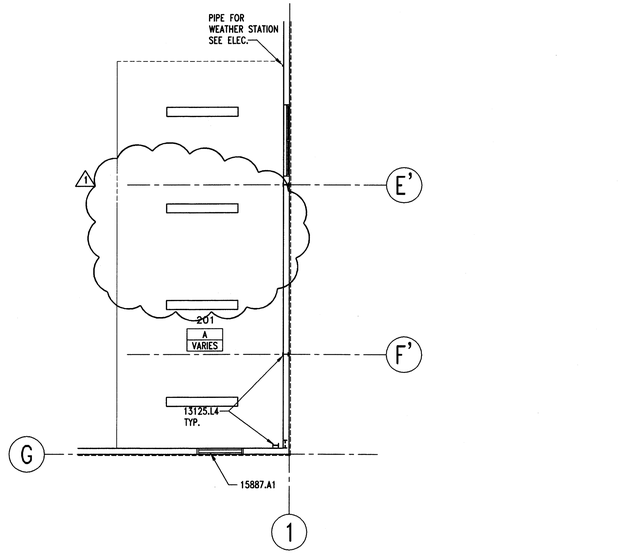
A1 | FIRST FLOOR REFLECTED CEILING PLAN

AE121 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PROJECT NORTH

TRUE NORTH



A4 | MECH. MEZZANINE REFLECTED CEILING PLAN

AE121 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PROJECT NORTH

TRUE NORTH

CEILING SYMBOLS

- PAINTED GYP. BD. CEILING
- 2' x 4' FLUORESCENT LIGHT FIXTURE, SEE ELECT. DRAWINGS FOR TYPE.
- 1' x 4' FLUORESCENT LIGHT FIXTURE
- 1' x 4' FLUORESCENT LIGHT FIXTURE EMERGENCY LIGHT FIXTURE RE: ELECT.
- 1' x 8' FLUORESCENT LIGHT FIXTURE
- 1' x 8' FLUORESCENT LIGHT FIXTURE EMERGENCY LIGHT FIXTURE RE: ELECT.
- RETURN AIR GRILLE - HORIZONTAL (SEE MECH. DRAWINGS)
- SUPPLY AIR GRILLE - HORIZONTAL (SEE MECH. DRAWINGS)
- RADIANT HEAT SYSTEM (SEE MECH. DRAWINGS)
- EXHAUST FAN (SEE MECH. DRAWINGS)
- EXIT SIGN
- UNIT HEATER (SEE MECH. DRAWINGS)
- EMERGENCY FLOOD LIGHTS
- EXTERIOR WALL MOUNTED LIGHTS

REFLECTED CEILING PLAN LEGEND

ROOM # — 131
TYPE — E
ELEVATION — VARIES
A.F.F.

TYPE A	EXPOSED STRUCTURE - PAINTED
TYPE B	5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM - PAINTED

GENERAL NOTES

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
2. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE NOTES FOR ADDITIONAL CEILING FINISH INFORMATION.
3. SEE DETAIL B1/AE502 FOR SEISMIC BRACING DETAIL.
4. ROOF STRUCTURE NOT SHOWN FOR CLARITY.
5. COORDINATE LOCATION OF OVERHEAD DOOR TRACKS WITH LIGHTING FIXTURES TO INSURE PROPER OPERATION OF OVERHEAD DOORS.

KEYNOTES

08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
13125.B2	STANDING SEAM METAL CANOPY
13125.F0	METAL WALL PANEL
13125.L4	STEEL COLUMN - PRIMED AND PAINTED
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
14620.A0	TROLLEY HOIST (SIZE) RE: STRUCTURAL
15491.B0	OVERHEAD LUBE REELS
15491.C0	OVERHEAD HOSE REELS
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
15611.A1	PROPANE FIRED FURNACE
15887.A1	LOUVER WITH BIRD SCREEN
16510.A0	INTERIOR LIGHTS
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

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ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

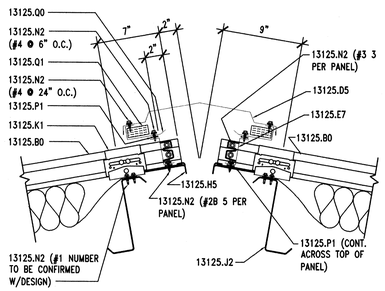
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

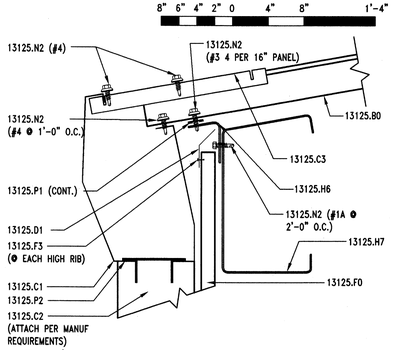
FIRST FLOOR AND MEZZANINE REFLECTED CEILING PLANS

AE121



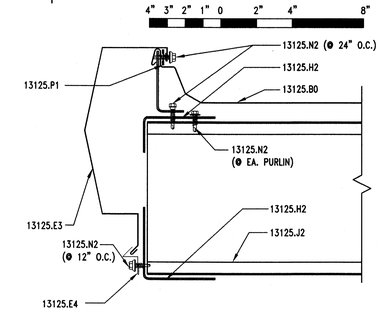
C1 | RIDGE VENT DETAIL

AE141 | REF. AE301 | SCALE: 1 1/2" = 1'-0"



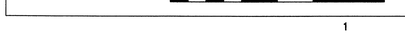
B1 | GUTTER DETAIL

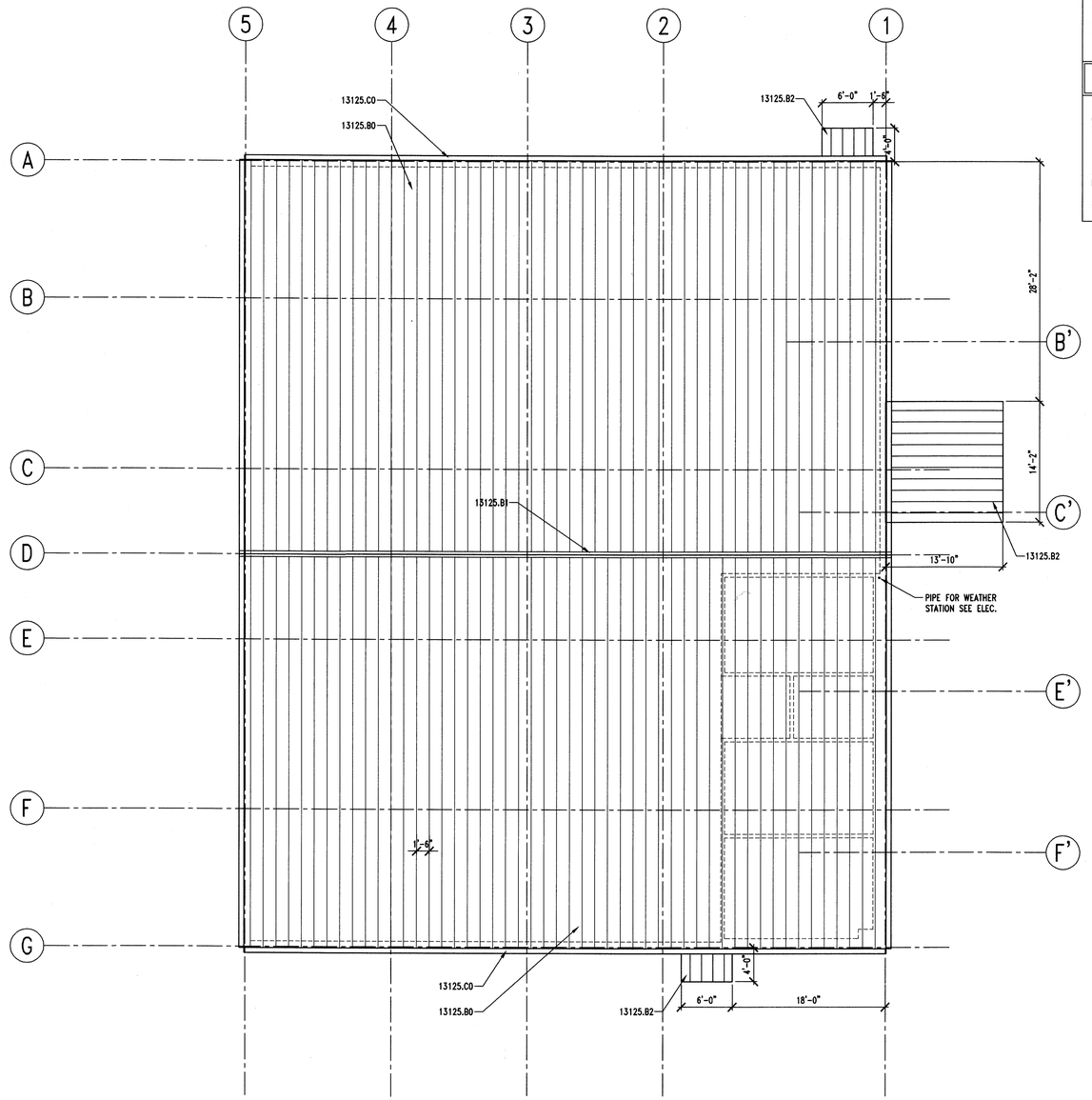
AE141 | REF. AE311 | SCALE: 3" = 1'-0"



A1 | STARTING RAKE DETAIL

AE141 | REF. AE311 | SCALE: 3" = 1'-0"





A2 | ROOF PLAN

AE141 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

PROJECT NORTH

TRUE NORTH

KEYNOTES

13125.B0	STANDING SEAM METAL ROOF (SLOPE 1:12)
13125.B1	STANDING SEAM METAL ROOF RIDGE
13125.B2	STANDING SEAM METAL CANOPY
13125.C0	METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.C3	GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D1	METAL DRIP FLASHING
13125.D5	RIDGE FLASHING, TO MATCH ROOF PANELS
13125.E3	RAKE TRIM
13125.E4	RAKE SLIDE
13125.E7	METAL OUTSIDE CLOSURE
13125.F0	METAL WALL PANEL
13125.F3	POP RIVET
13125.H2	HIGH RAKE SUPPORT ANGLE
13125.H5	BACKUP PLATE ANGLE
13125.H6	EAVE SUPPORT ANGLE
13125.H7	EAVE STRUT
13125.J2	ROOF PURLIN – PAINTED
13125.K1	LOW PANEL CLIP
13125.N2	FASTENER (SPACING)
13125.P1	DOUBLE BEAD TAPE SEALER
13125.P2	SEALANT
13125.Q0	METAL VENT
13125.Q1	VENT MATERIAL

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. SEE SHEET AE201 FOR EXTERIOR FINISH COLORS.

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95-310818-0301
1/24/07
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

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ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

ROOF PLAN

AE141

EXTERIOR COLOR SCHEDULE

(13125.B0) METAL ROOF: GALVALUME METAL ROOF
(13125.G0) METAL FASCIA: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT.
(13125.C1 & E3) GUTTERS & RAKE TRIM: SILICONIZED POLYESTER FINISH – COLOR "B" BY ARCHITECT
(13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 3.
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 5.
(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(08520.B0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(15490.C0) WASTE OIL PIT: OSHA SAFETY RED

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. PAINT ALL EXPOSED, EXTERIOR STEEL AT OIL PIT CANOPY – COLOR TO MATCH WALL PANELS.

6. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

7. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR ELEVATION KEYNOTES

03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03300.C1 FOOTING–RE: STRUCTURAL
03300.D0 CONCRETE PAD
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.S1 SPLASH BLOCK

05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED

06105.R3 PROTECTION BOARD (THICKNESS)

07901.A0 CONT. SEALANT

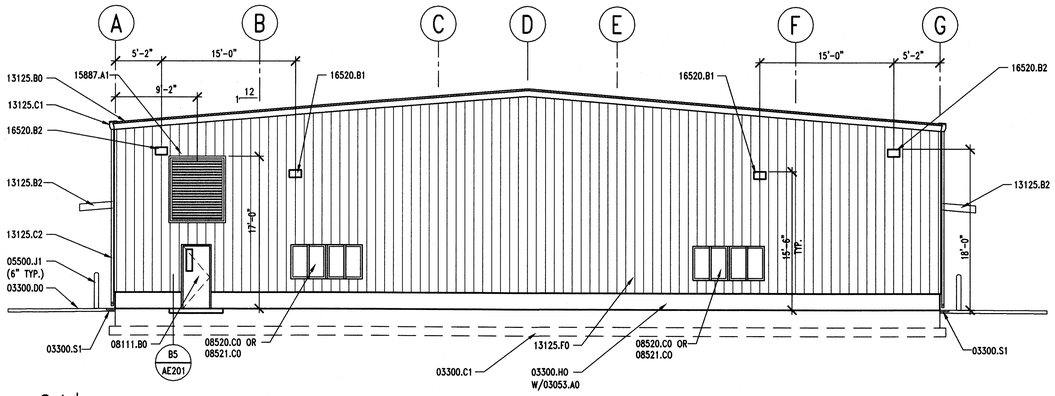
08111.B0 HOLLOW METAL DOOR
08360.A0 OVERHEAD SECTIONAL DOOR
08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

10425.C1 ACCESSIBLE SIGNAGE – SEE DETAIL D3/AE502

13125.B0 STANDING SEAM METAL ROOF
13125.B2 STANDING SEAM METAL CANOPY
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.D1 METAL DRIP FLASHING
13125.E2 PANEL TRIM
13125.E6 WALL CLOSURE
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.G0 METAL FACIA
13125.H1 METAL ANGLE
13125.L4 STEEL COLUMN – PRIMED AND PAINTED
13125.N1 ANCHOR
13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

15050.A1 MECH. PENETRATIONS
15490.C0 WASTE OIL PIT
15887.A1 LOUVER W/ BIRD SCREEN

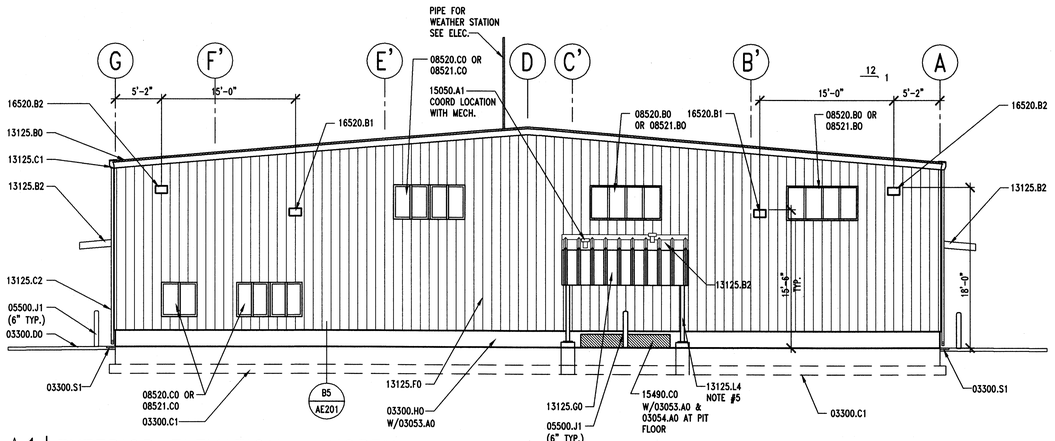
16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS



C1 | EXTERIOR ELEVATION – SOUTH

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

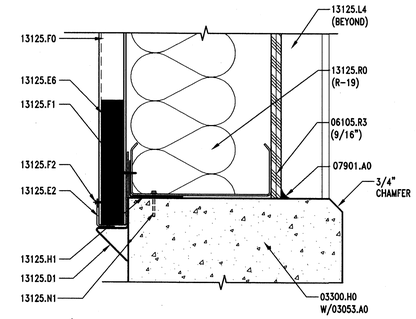
8' 6' 4' 2' 0' 4' 8' 16'



A1 | EXTERIOR ELEVATION – NORTH

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

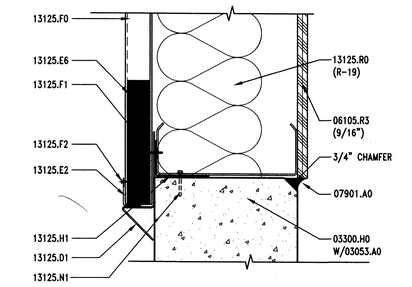


B5 | WALL PANEL @ STEM WALL

AE201 | REF. AE201 & AE301 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XTL-AE2TB5A201



A5 | WALL PANEL @ STEM WALL

AE201 | REF. AE202 & AE301 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XTL-AE2TA5A201

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11/29/06
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ISSUE

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	9/28/06	95% DESIGN REVIEW

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ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

EXTERIOR
ELEVATIONS

AE201

EXTERIOR COLOR SCHEDULE

(13125.B0) METAL ROOF: GALVALUME METAL ROOF
(13125.G0) METAL FASCIA: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT.
(13125.C1 & E3) GUTTERS & RAKE TRIM: SILICONIZED POLYESTER FINISH – COLOR "B" BY ARCHITECT
(13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH – COLOR "A" BY ARCHITECT
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 3.
(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 5.
(08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(08520.B0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL
(15490.C0) WASTE OIL PIT: OSHA SAFETY RED

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

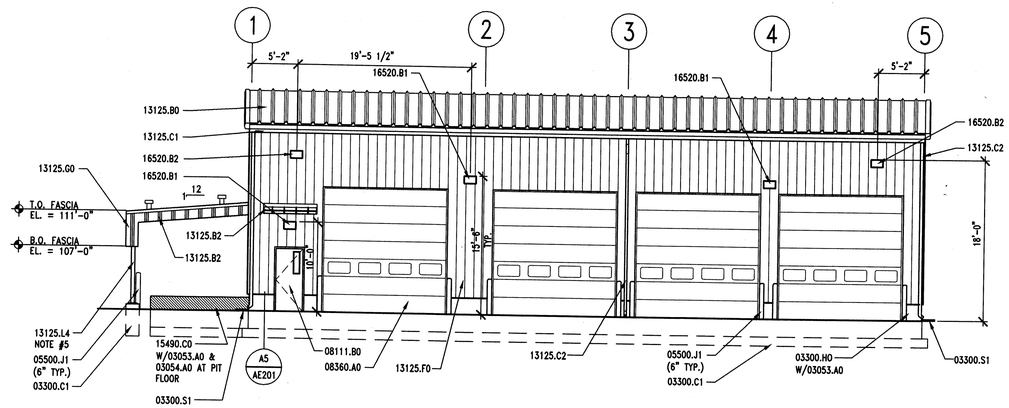
5. PAINT ALL EXPOSED, EXTERIOR STEEL AT OIL PIT CANOPY – COLOR TO MATCH WALL PANELS.

6. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

7. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

EXTERIOR ELEVATION KEYNOTES

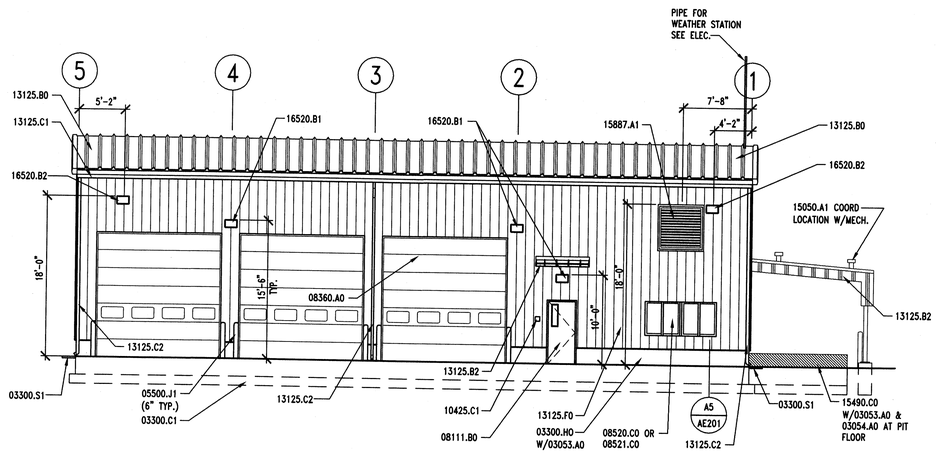
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.C1	FOOTING–RE: STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.S1	SPLASH BLOCK
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PROTECTION BOARD (THICKNESS)
07901.A0	CONT. SEALANT
08111.B0	HOLLOW METAL DOOR
08360.A0	OVERHEAD SECTIONAL DOOR
08520.B0	FIXED ALUM. WINDOW
08520.C0	ALUM. WINDOW W/SLIDING GLASS PANEL
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
10425.C1	ACCESSIBLE SIGNAGE – SEE DETAIL D3/AE502
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.E2	PANEL TRIM
13125.E6	WALL CLOSURE
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.G0	METAL FACIA
13125.H1	METAL ANGLE
13125.L4	STEEL COLUMN – PRIMED AND PAINTED
13125.N1	ANCHOR
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
15050.A1	MECH. PENETRATIONS
15490.C0	WASTE OIL PIT
15887.A1	LOUVER W/ BIRD SCREEN
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS



C2 | EXTERIOR ELEVATION – WEST

AE202 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A2 | EXTERIOR ELEVATION – EAST

AE202 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

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ISSUE

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DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

EXTERIOR ELEVATIONS

AE202

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

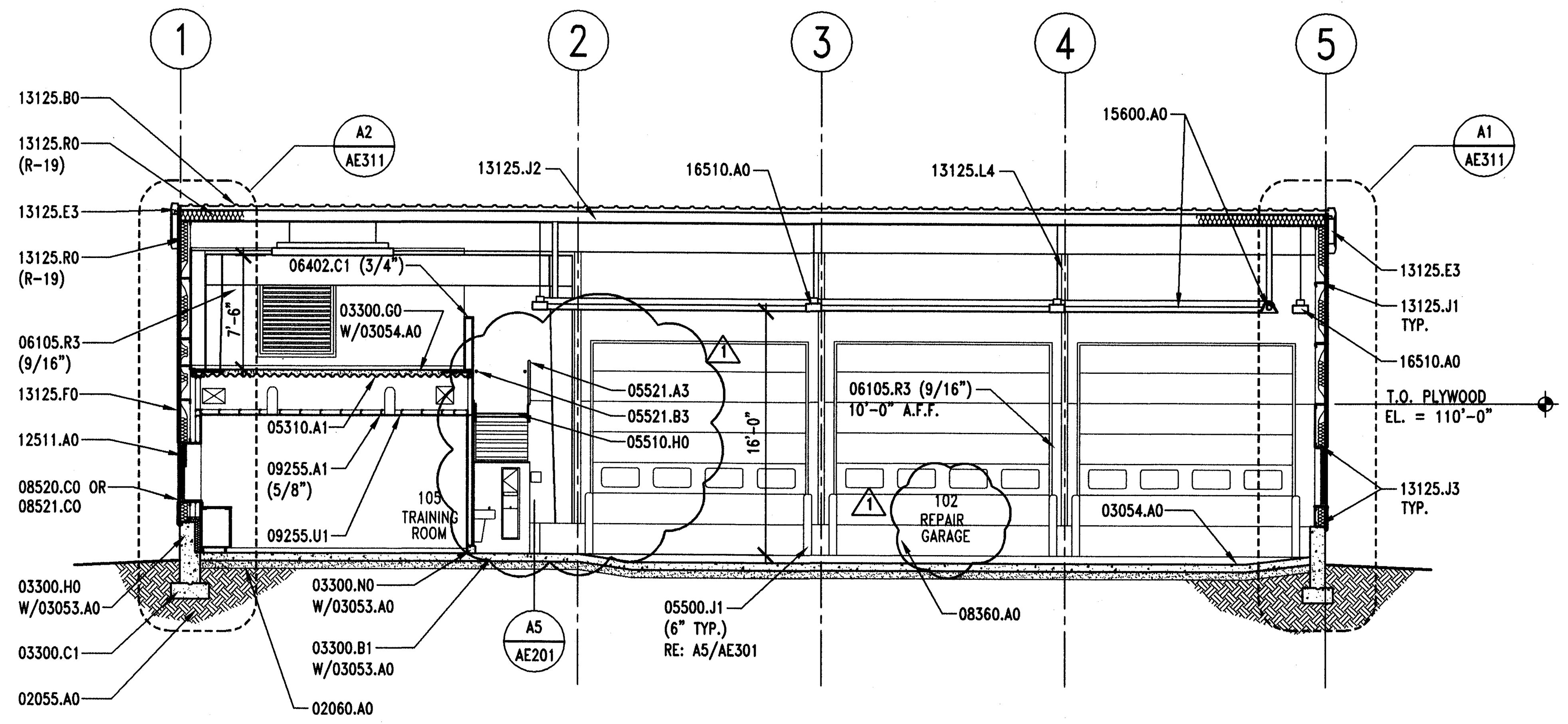
5. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

6. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB IN ROOMS 101, 102, 103 AND CONCRETE MEZZANINE.

7. PAINT ALL EQUIPMENT MOUNTING BARS TO MATCH PLYWOOD COLOR.

BUILDING SECTION KEYNOTES

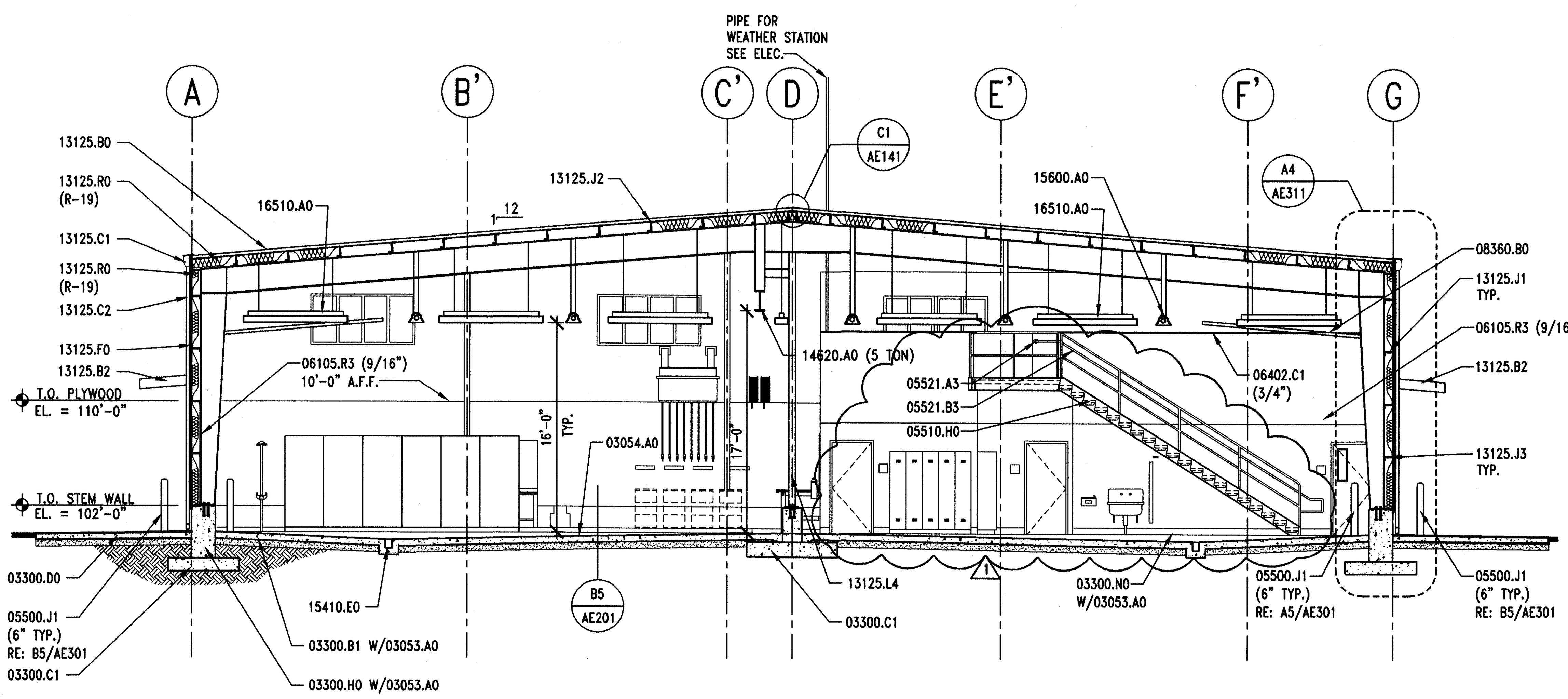
02200.A0	COMPACTED FILL
02200.B0	GRAVEL BASE
02511.A0	ZERO VOIDS ASPHALT PAVING (THICKNESS)
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB-ON-GRADE – RE: STRUCTURAL
03300.B1	CONCRETE SLAB – RE:STRUCTURAL
03300.C1	FOOTING-RE: STRUCTURAL
03300.D0	CONCRETE PAD
03300.G0	CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.K1	CONCRETE PIPE BASE
03300.L1	30# FELT
03300.N0	CONCRETE CURB
05310.A1	METAL DECK – RE: STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
05510.H0	CONC. FILLED METAL PAN STAIR – GALVANIZED
05521.A3	1 1/2" O.D. PIPE GUARDRAIL – GALVANIZED
05521.B3	1 1/2" O.D. HANDRAIL – GALVANIZED
06105.R3	PROTECTION BOARD (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK.)
08360.A0	OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08520.C0	ALUM. WINDOW W/SLIDING GLASS PANEL
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.U1	SUSPENDED CEILING SYSTEM
12511.A0	HORIZONTAL LOUVER BLINDS
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.J1	STRUCTURAL GIRT – PAINTED
13125.J2	ROOF PURLIN – PAINTED
13125.J3	STRUCTURAL GIRT
13125.L4	STEEL COLUMN – PRIMED & PAINTED
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)
14620.A0	TROLLEY HOIST (SIZE) – RE: STRUCTURAL
15410.E0	TRENCH DRAIN
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
16510.A0	INTERIOR LIGHTS



C2 | BUILDING SECTION

AE301 | REF. AE101 SCALE: 1/8" = 1'-0"

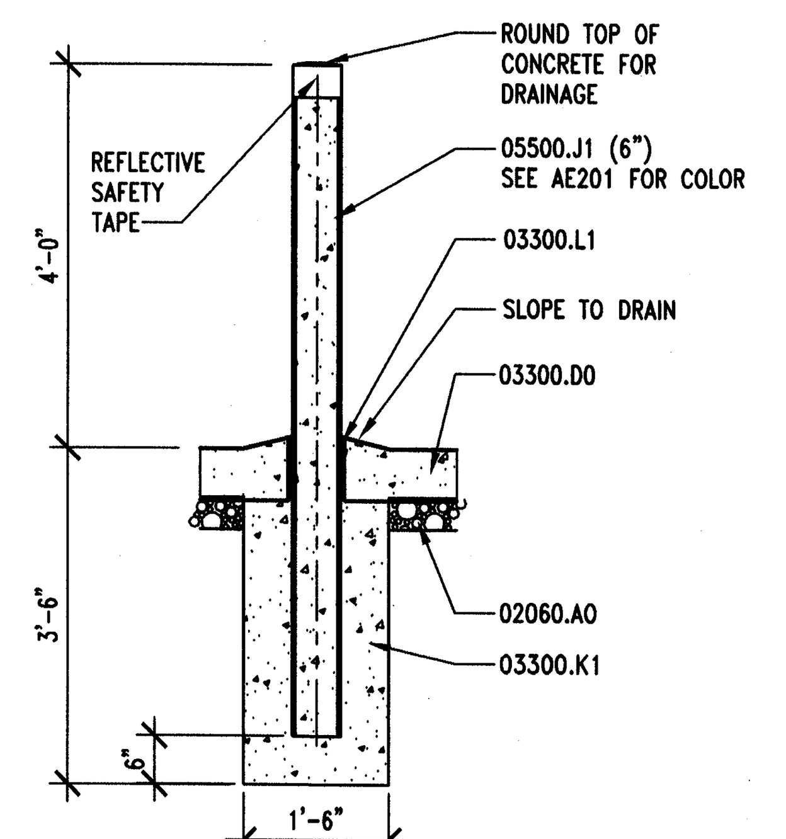
8' 6' 4' 2' 0' 4' 8' 16'



A1 | BUILDING SECTION

AE301 | REF. AE101 SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

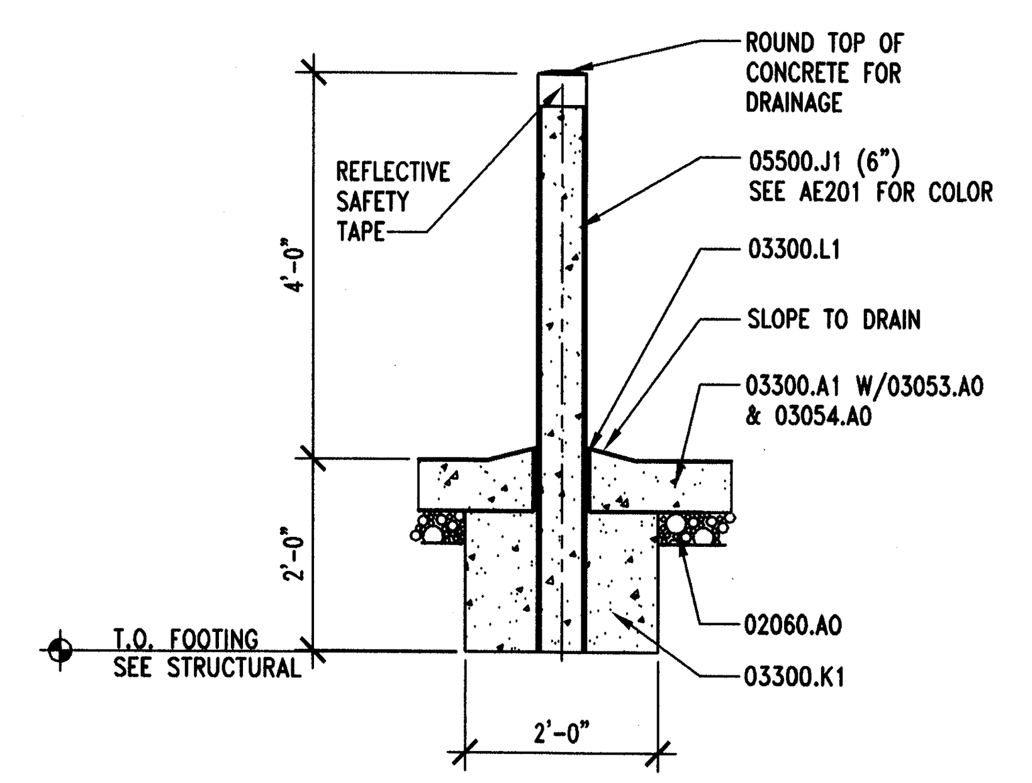


XTL-AEDTB5A301

B5 | EXT. PIPE BOLLARD DTL.

AE301 | REF. AE101 & AE301 SCALE: 1/2" = 1'-0"

24" 18' 12' 6" 0' 1' 2' 4'



XTL-AEDTA5A301

A5 | INT. PIPE BOLLARD DTL.

AE301 | REF. AE101 & AE301 SCALE: 1/2" = 1'-0"

24" 18' 12' 6" 0' 1' 2' 4'

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95-310818-0301
1/24/07
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

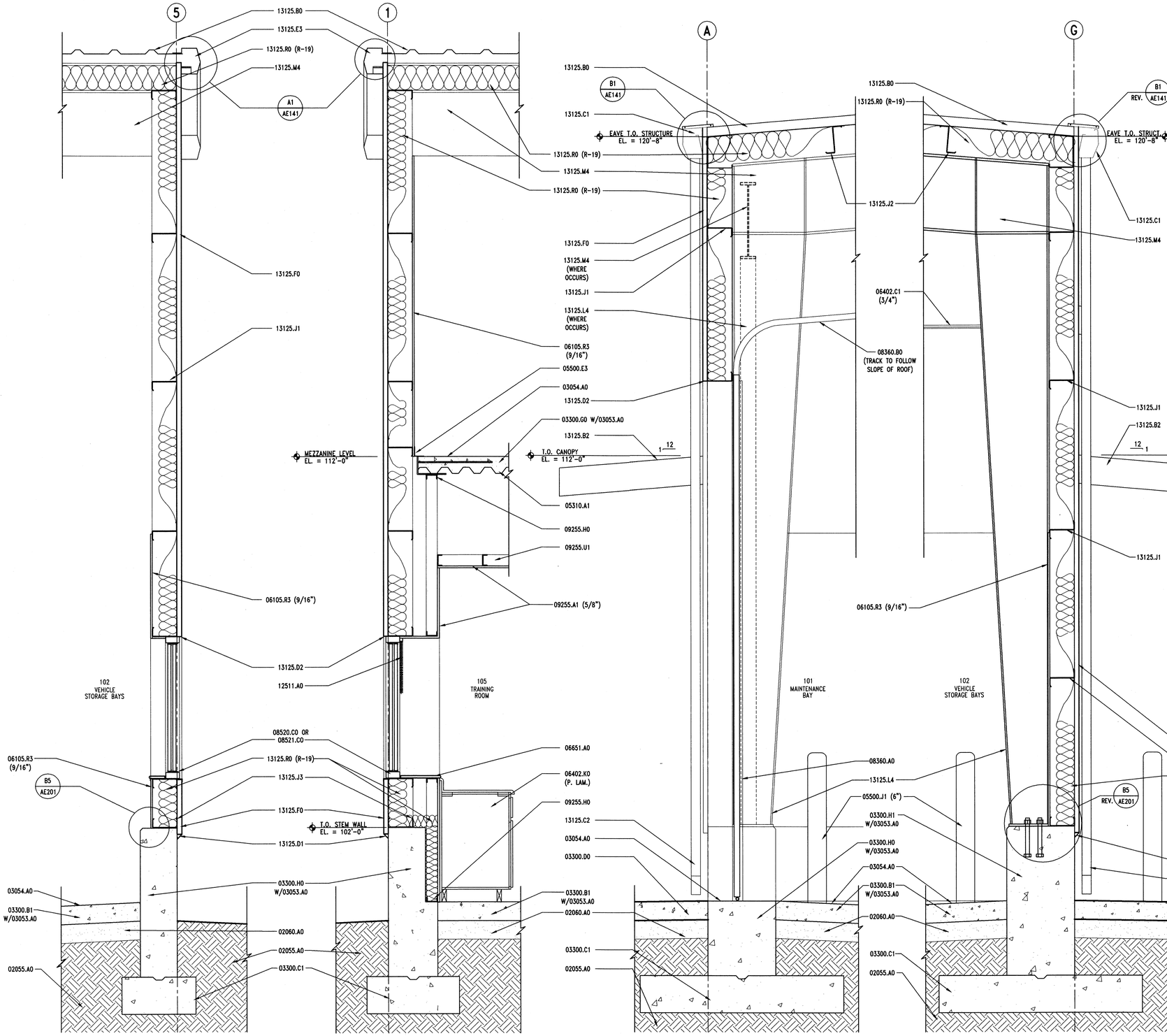
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

BUILDING SECTIONS AND DETAILS

AE301



KEYNOTES

02055.A0	COMPACTED FILL
02060.A0	GRAVEL BASE
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.B1	CONCRETE SLAB – RE:STRUCTURAL
03300.C1	FOOTING–RE: STRUCTURAL
03300.D0	CONCRETE PAD
03300.G0	CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.H1	CONCRETE PIER, RE: STRUCTURAL
05310.A1	METAL DECK – RE: STRUCTURAL
05500.E3	BENT PLATE – SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
06105.R3	PROTECTION BOARD (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK.)
06402.K0	BASE UNIT (FINISH)
06651.A0	1/2" WHITE SOLID SURFACE WINDOW SILL
08360.A0	OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08520.C0	ALUM. WINDOW W/SLIDING GLASS PANEL
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.U1	SUSPENDED CEILING SYSTEM
12511.A0	HORIZONTAL LOUVER BLINDS
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.D1	METAL DRIP FLASHING
13125.D2	METAL HEAD FLASHING
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.L4	STEEL COLUMN – PRIMED & PAINTED
13125.M4	STEEL BEAM – PRIMED & PAINTED
13125.J1	STRUCTURAL GIRT – PAINTED
13125.J2	ROOF PURLIN – PAINTED
13125.J3	STRUCTURAL GIRT
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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DFCM PROJECT NO:	06033900
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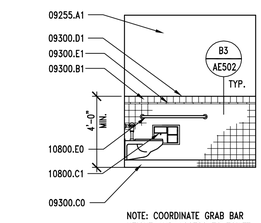
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	3/4"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

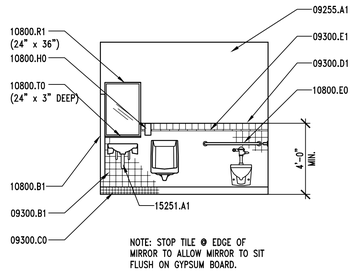
SHEET TITLE

WALL SECTIONS

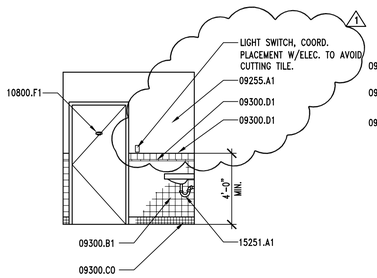
AE311

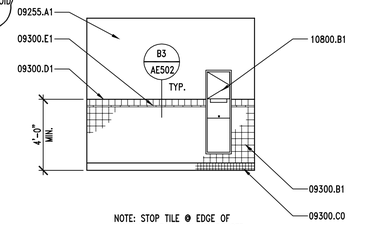


NOTE: COORDINATE GRAB BAR HEIGHT AND ACCESS TO TOILET TISSUE DISPENSER



NOTE: STOP TILE @ EDGE OF MIRROR TO ALLOW MIRROR TO SIT FLUSH ON GYPSUM BOARD.





NOTE: STOP TILE @ EDGE OF DISPENSER TO ALLOW DISPENSER TO SIT FLUSH ON GYPSUM BOARD.

D1 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0 2' 4' 8'

D2 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0 2' 4' 8'

D3 | RESTROOM ELEVATION

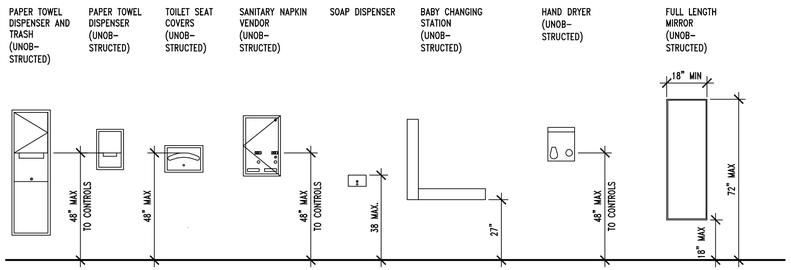
AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0 2' 4' 8'

D4 | RESTROOM ELEVATION

AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

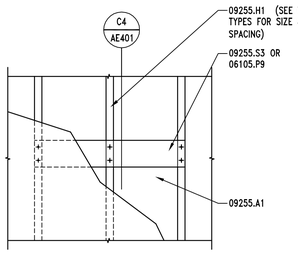
4' 3' 2' 1' 0 2' 4' 8'



C1 | RESTROOM MOUNTING HEIGHTS DETAIL

AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

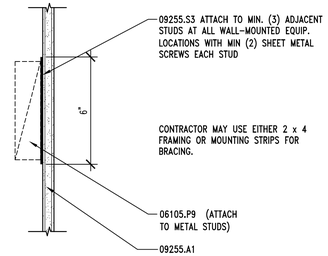
12"6" 0 1' 2' 4'



C3 | MOUNTING PLATE ELEV.

AE401 | REF. AE401 | SCALE: 3/4" = 1'-0"

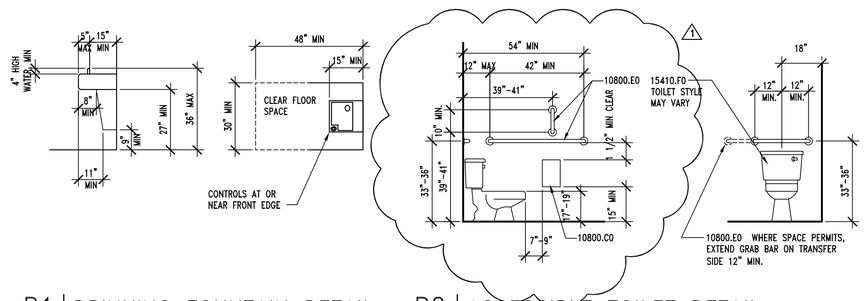
12" 8" 4" 0 6" 1' 2' 3'



C4 | MOUNTING PLATE SECTION

AE401 | REF. AE401 | SCALE: 3" = 1'-0"

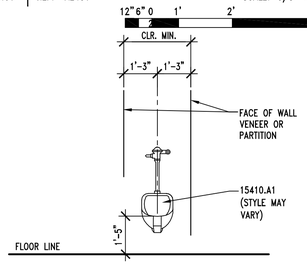
4" 3" 2" 1" 0 2" 4" 8"



B1 | DRINKING FOUNTAIN DETAIL

AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

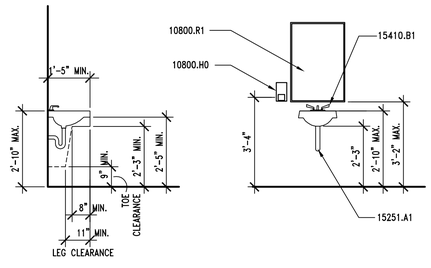
12"6" 0 1' 2' 4'



B2 | ACCESSIBLE TOILET DETAIL

AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

12"6" 0 1' 2' 4'



A1 | ACCESSIBLE URINAL DETAIL

AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

12"6" 0 1' 2' 4'

A2 | ACCESSIBLE SINK DETAIL

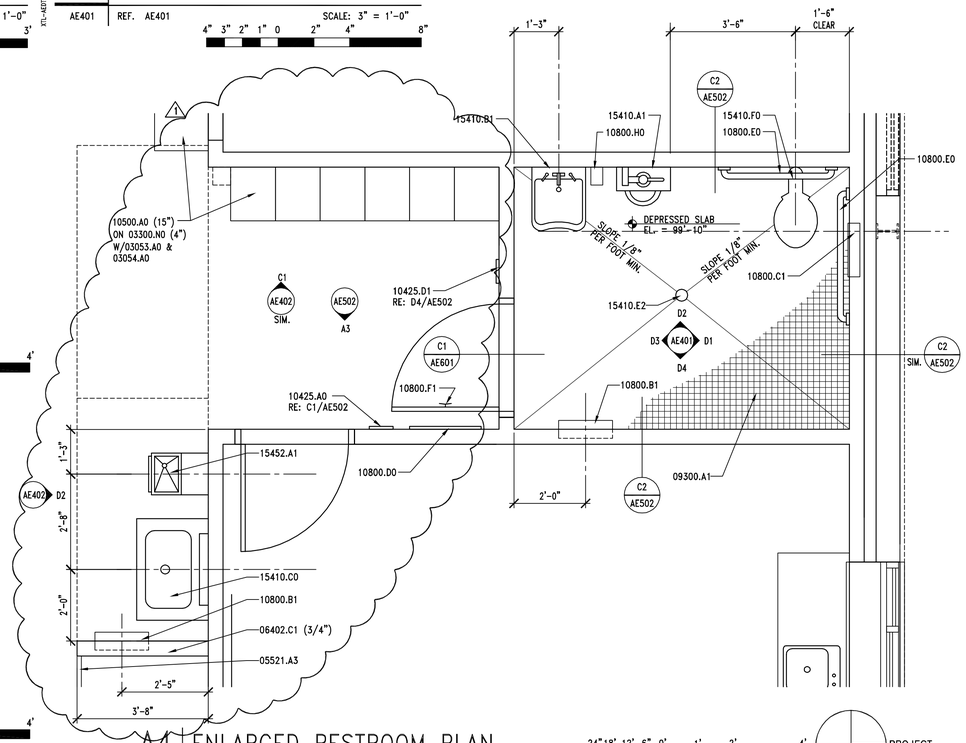
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"

12"6" 0 1' 2' 4'

A4 | ENLARGED RESTROOM PLAN

AE401 | REF. AE101 | SCALE: 1/2" = 1'-0"

24" 18' 12' 6" 0' 1' 2' 4'



KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.N0	CONCRETE CURB
05521.A3	1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED
06105.P9	2 x FRAMING, FIRE TREATED
06402.C1	PAINT GRADE WOOD CAP (THICK)
09255.A1	GYPSUM BOARD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.S3	18 GA. METAL MOUNTING STRIPS
09300.A1	FLOOR TILE - SEE FINISH SCHED.
09300.B1	WALL TILE - SEE FINISH SCHED.
09300.C0	TILE BASE
09300.DI	BULLNOSE TILE
09300.E1	1/2" x 6" TILE TRIM PIECE - SEE FINISH SCHED.
10425.A0	ROOM SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0	TOILET TISSUE DISPENSER
10800.C1	RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0	MOP RACK
10800.E0	GRAB BAR
10800.F1	DOUBLE PRONG ROBE HOOK
10800.H0	SOAP DISPENSER
10800.R1	FRAMED MIRROR (SIZE)
10800.T0	METAL SHELF (SIZE)
15251.A1	PIPE INSULATION AT ALL EXPOSED PIPE
15410.A1	URINAL, ACCESSIBLE
15410.B1	SINK FAUCET W/ADA LEVER HANDLES
15410.C0	UTILITY SINK
15410.E2	FLOOR DRAIN
15410.F0	TOILET
15452.A1	DRINKING FOUNTAIN

GENERAL NOTES

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2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C3/AE401

5. SEE C1/AE401 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

6. SEE DETAILS A1, A2, B1 & B2/AE401 FOR ADA TYPICAL DETAILS

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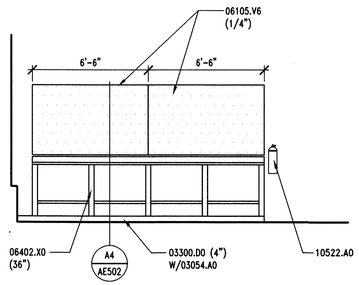
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

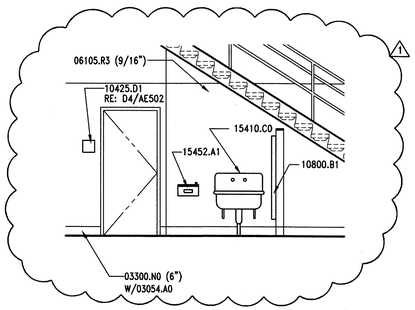
KEY PLAN

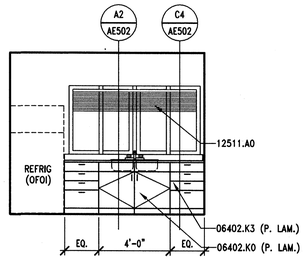
SHEET TITLE

ENLARGED RESTROOM FLOOR PLAN, INTERIOR ELEVATIONS AND DETAILS

AE401







D1 | INTERIOR ELEVATION

AE402 | REF. AE402 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

D2 | INTERIOR ELEVATION

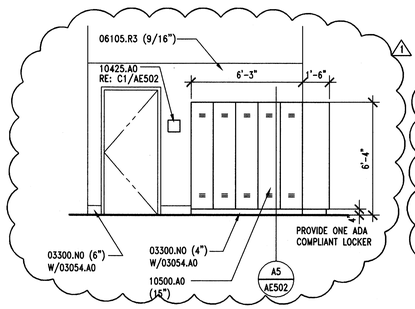
AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

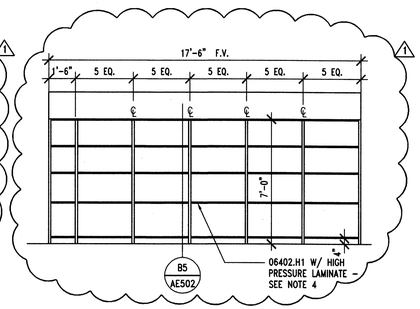
4' 3' 2' 1' 0' 2' 4' 8'

D3 | INTERIOR ELEVATION

AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'





C1 | LOCKER ELEVATION

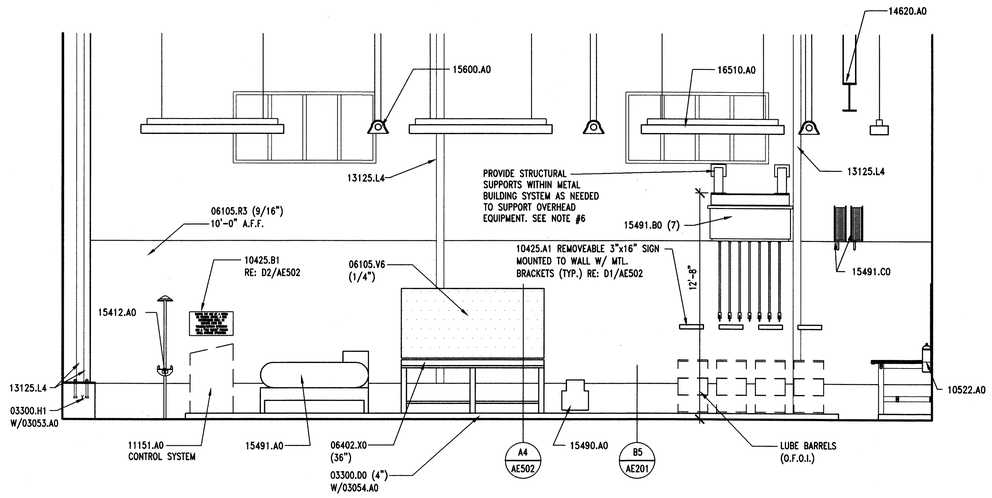
AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

C2 | TYP. SHELVING ELEVATION

AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

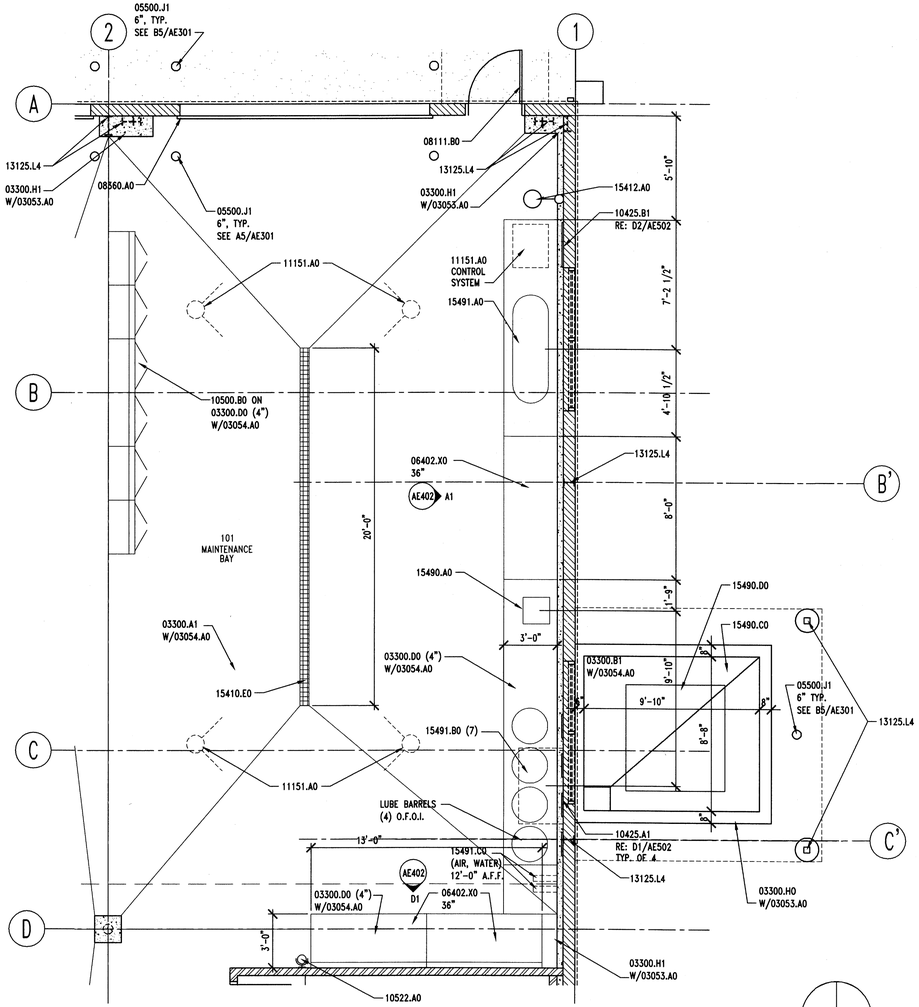
4' 3' 2' 1' 0' 2' 4' 8'



A1 | INTERIOR ELEVATION

AE402 | REF. AE402 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'



A3 | ENLARGED MAINTENANCE BAY

AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
03300.B1	CONCRETE SLAB - RE: STRUCTURAL
03300.D0	CONCRETE PAD (SIZE)
03300.H0	FOUNDATION WALL - RE: STRUCTURAL
03300.H1	CONCRETE PIER - RE: STRUCTURAL
03300.N0	CONCRETE CURB (HEIGHT)
05500.J1	PIPE BOLLARD (DIAMETER) - GALV. & PAINTED
06105.R3	PROTECTION BOARD (THICKNESS)
06105.V6	PEGBOARD (THICKNESS)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT WITH DRAWERS (FINISH)
06402.X0	WORKBENCH (DEPTH)
08111.B0	HOLLOW METAL DOOR
08360.A0	OVERHEAD SECTIONAL DOOR
10425.A0	ROOM SIGNAGE
10425.A1	OIL SIGNAGE
10425.B1	WELDING SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10500.B0	METAL STORAGE CABINETS
10522.A0	FIRE EXTINGUISHER
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
11151.A0	MOBILE LIFT - NIC - OWNER FURNISHED
12511.A0	HORIZONTAL LOUVER BLINDS
13125.L4	STEEL COLUMN - PRIMED & PAINTED
14620.A0	TROLLEY HOIST (SIZE) - RE: STRUCTURAL

KEYNOTES - CONT.

15410.C0	UTILITY SINK
15410.E0	TRENCH DRAIN
15412.A0	EMERGENCY SHOWER & EYE WASH
15452.A1	DRINKING FOUNTAIN
15490.A0	WASTE OIL PUMP
15490.C0	WASTE OIL PIT
15490.D0	600 GAL. WASTE OIL TANK - O.F.C.I.
15491.A0	AIR COMPRESSOR
15491.B0	OVERHEAD LUBE REELS
15491.C0	OVERHEAD HOSE REELS
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
16510.A0	INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. PROVIDE QUANTITY OF ADJUSTABLE SHELVING AS SHOWN IN ELEVATION.
5. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.
6. PAINT ALL EQUIPTMENT MOUNTING BARS TO MATCH PLYWOOD COLOR
7. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.
8. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101, 102, 103 & CONCRETE MEZZANINE.

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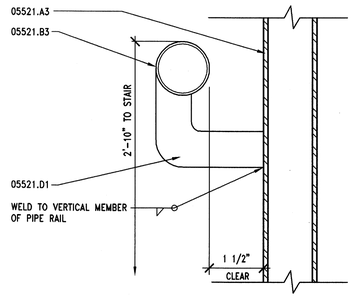
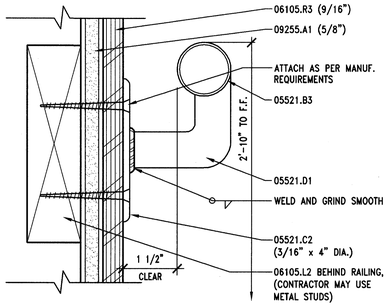
KEY PLAN

SHEET TITLE

ENLARGED MAINTENANCE BAY AND INTERIOR ELEVATIONS

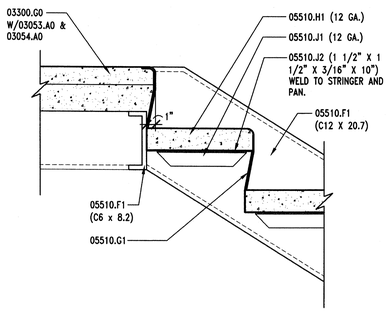
AE402





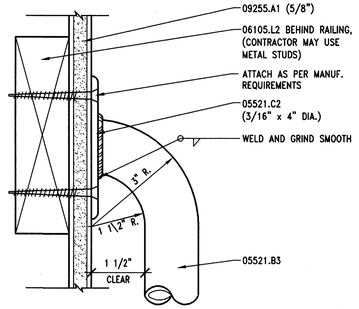
D1 | HANDRAIL ATTACHMENT DTL.

AE403 | REF. AE403 | SCALE: 6" = 1'-0"



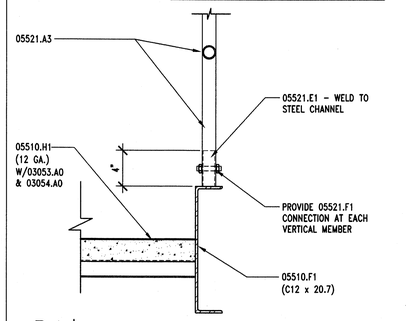
D2 | HANDRAIL ATTACHMENT DTL.

AE403 | REF. AE403 | SCALE: 6" = 1'-0"



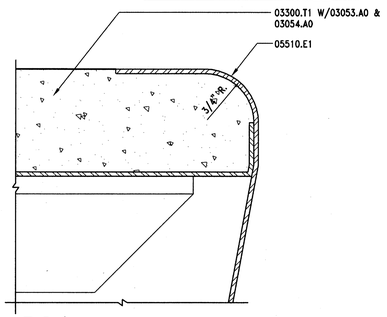
C1 | STAIR LANDING DETAIL

AE403 | REF. AE403 | SCALE: 1 1/2" = 1'-0"



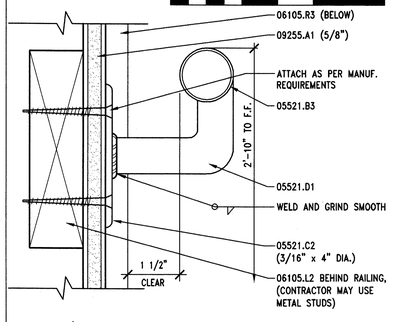
C2 | HANDRAIL ATTACHMENT DTL.

AE403 | REF. AE403 | SCALE: 6" = 1'-0"



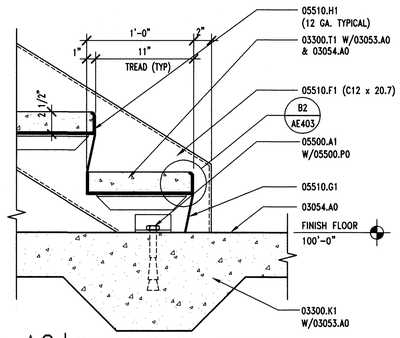
B1 | GUARDRAIL ATTACH. DETAIL

AE403 | REF. AE403 | SCALE: 1 1/2" = 1'-0"



B2 | STAIR NOSING DETAIL

AE403 | REF. AE403 | SCALE: NONE

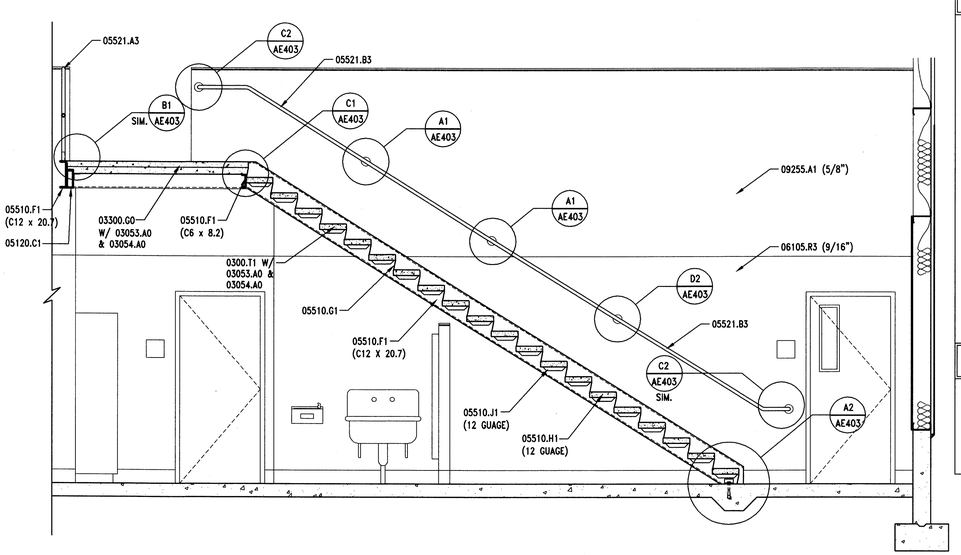


A1 | HANDRAIL ATTACHMENT DTL.

AE403 | REF. AE403 | SCALE: 6" = 1'-0"

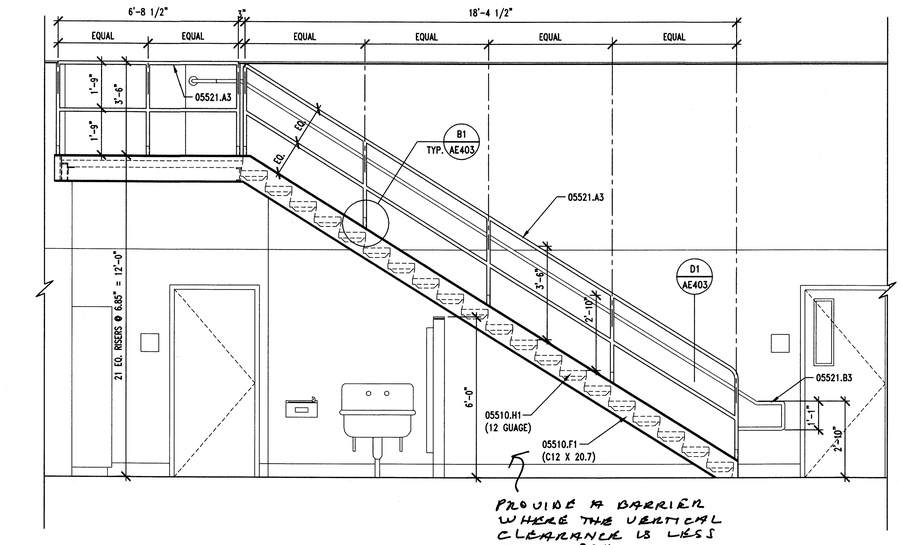
A2 | STAIR BASE DETAIL

AE403 | REF. AE403 | SCALE: 1 1/2" = 1'-0"



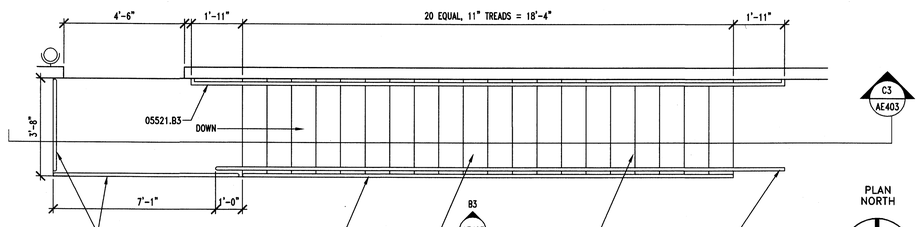
C3 | STAIR SECTION/HANDRAIL ELEVATION

AE403 | REF. AE403 | SCALE: 3/8" = 1'-0"



B3 | STAIR ELEVATION

AE403 | REF. AE403 | SCALE: 3/8" = 1'-0"



A3 | ENLARGED STAIR PLAN

AE403 | REF. AE101 | SCALE: 3/8" = 1'-0"

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.G0	CONCRETE OVER METAL DECK - RE: STRUCTURAL
03300.K1	THICKENED SLAB - RE: STRUCTURAL
03300.T1	CONCRETE AT STAIR TREAD
05120.C1	TUBE STEEL BEAM - RE: STRUCTURAL - GALVANIZED
05500.A1	ANGLE - RE: STRUCTURAL
05500.P0	ANCHOR BOLT(S)
05510.E1	NON SKID SURFACE @ NOSING
05510.F1	STEEL STRINGER - (SIZE) - GALVANIZED
05510.G1	3/16" STEEL CLOSURE PLATE - GALVANIZED
05510.H1	PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD - (SIZE) - GALV.
05510.J1	METAL PAN STAIR SUPPORT - (SIZE) - GALVANIZED
05510.J2	PAN ANCHORAGE - (SIZE) - GALVANIZED
05521.A3	1 1/2" O.D. PIPE GUARDRAIL - GALVANIZED
05521.B3	1 1/2" O.D. PIPE HANDRAIL - GALVANIZED
05521.C2	ESCUTCHEON WITH EASED EDGES (SIZE)
05521.D1	PIPE RAIL SUPPORT - GALVANIZED
05521.E1	1" DIA. PIPE RAILING ANCHOR - GALVANIZED
05521.F1	1/2" DIA. THRU BOLT
06105.L2	BLOCKING AS REQUIRED
06105.R3	PROTECTION BOARD (THICKNESS)
09255.A1	GYPSUM BOARD (THICKNESS)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

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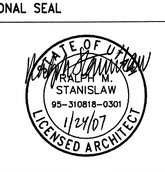


ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

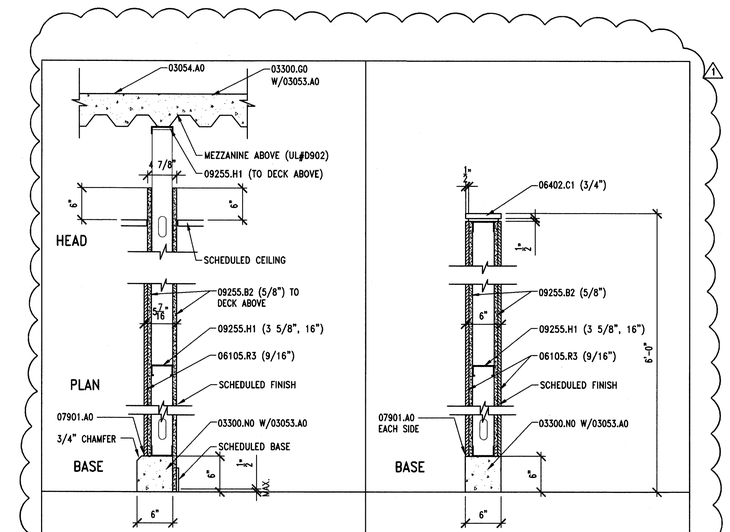
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

STAIR PLAN, SECTION ELEVATION AND DETAILS

AE403

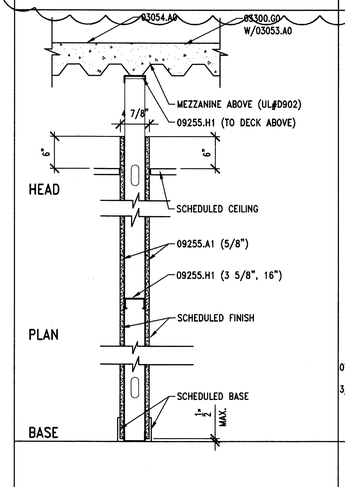


TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
G	AS NOTED	3 5/8"	N.R.	---	---

COMMENT

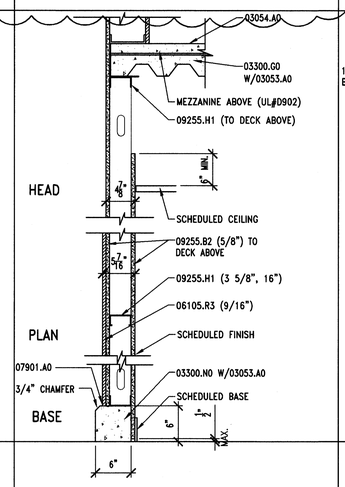
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
H	AS NOTED	3 5/8"	N.R.	---	---

COMMENT



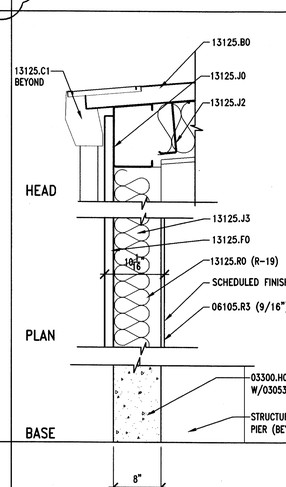
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
A	AS NOTED	3 5/8"	N.R.	---	---

COMMENT



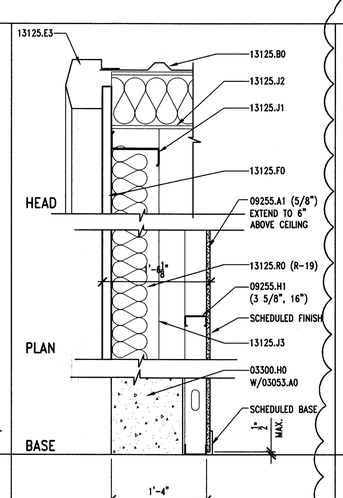
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
B	AS NOTED	3-5/8"	N.R.	---	---

COMMENT



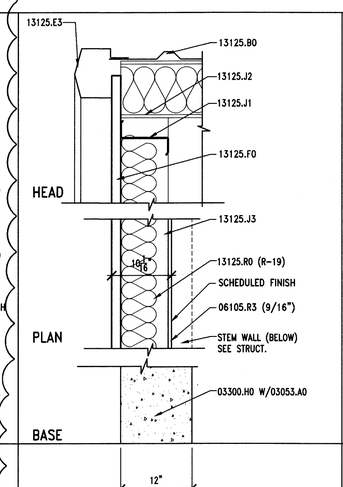
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
C	AS NOTED	–	N.R.	---	---

COMMENT



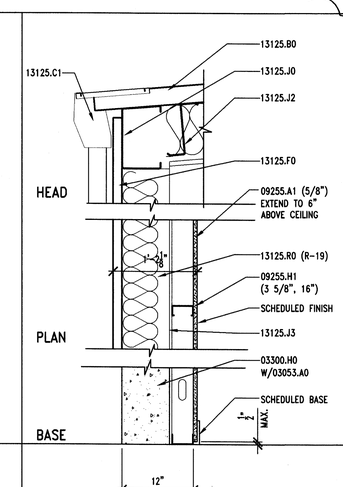
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
D	AS NOTED	3-5/8"	N.R.	---	---

COMMENT



TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
E	AS NOTED	–	N.R.	---	---

COMMENT



TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
F	AS NOTED	3-5/8"	N.R.	---	---

COMMENT

A1 | WALL TYPES

AE501 | REF. AE101 SCALE: 1" = 1'-0"

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.G0	CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.N0	CONCRETE CURB
06105.R3	PROTECTION BOARD (THICKNESS)
06402.C1	PAINT GRADE WOOD CAP (THICK)
07901.A0	CONT. SEALANT
09255.A1	GYPSUM BOARD (THICKNESS)
09255.B2	TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.H1	METAL STUDS (SIZE, SPACING)
13125.B0	STANDING SEAM METAL ROOF
13125.C1	METAL RAIN GUTTER
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.J0	STRUCTURAL MEMBER – PRIMED AND PAINTED
13125.J1	STRUCTURAL GIRT – PAINTED
13125.J2	ROOF PURLIN – PAINTED
13125.J3	STRUCTURAL GIRT
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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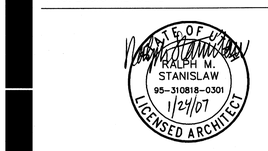


ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

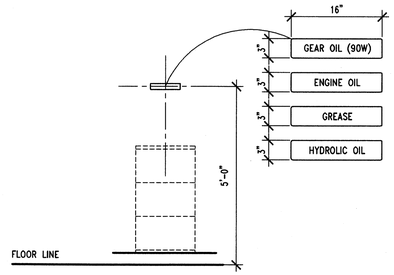
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

WALL TYPES

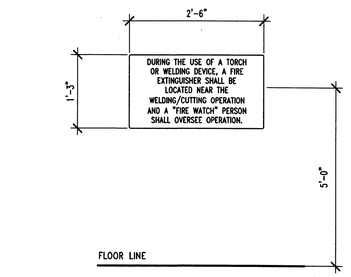
AE501



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D1 | SIGNAGE "A"

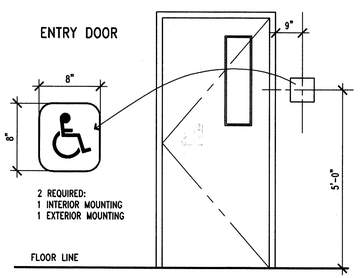
AE502 | REF. AE101 | SCALE: NO SCALE



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D2 | SIGNAGE "B"

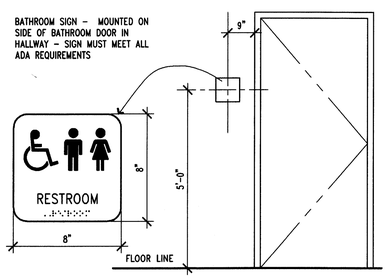
AE502 | REF. AE101 | SCALE: NO SCALE



RE: SPECIFICATION - 10425 FOR INFO.

D3 | SIGNAGE "C"

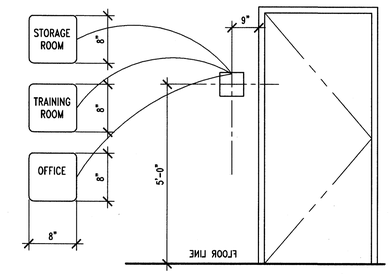
AE502 | REF. AE101 | SCALE: NO SCALE



RE: SPECIFICATION - 10425 FOR INFO.

D4 | SIGNAGE "D"

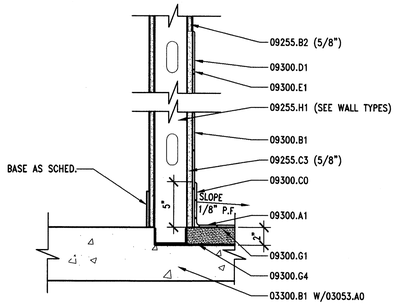
AE502 | REF. AE101 | SCALE: NO SCALE



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

C1 | SIGNAGE "E"

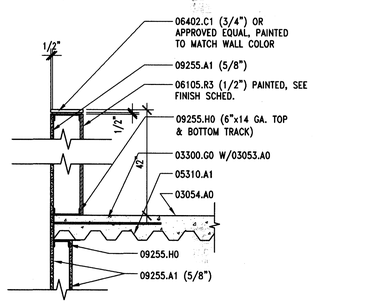
AE502 | REF. AE101 | SCALE: NO SCALE



C2 | TILE/TILE BASE DETAIL

AE502 | REF. AE401 | SCALE: 1 1/2" = 1'-0"

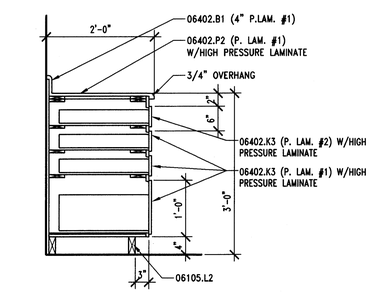
8" 6" 4" 2" 0 4" 8" 1'-4"



C3 | LOW PARTITION WALL DTL.

AE502 | REF. AE101 | SCALE: 3/4" = 1'-0"

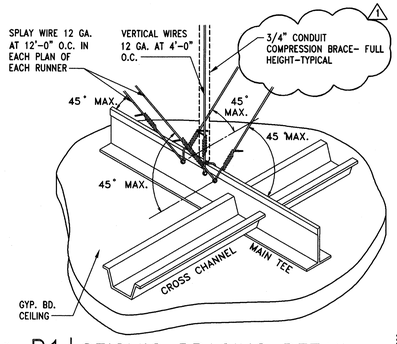
12" 8" 4" 0 6" 1' 2' 3'



C4 | BASE CABINET SECTION

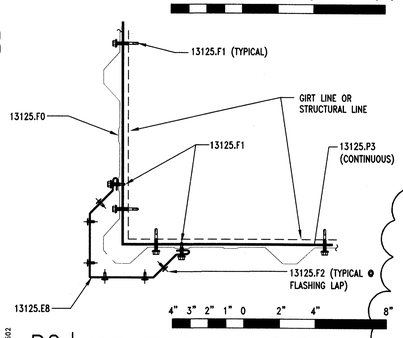
AE502 | REF. AE402 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'



B1 | SEISMIC BRACING DETAIL

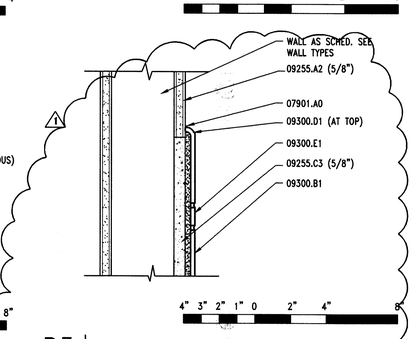
AE502 | REF. AE121 | SCALE: NONE



B2 | CORNER FLASHING DETAIL

AE502 | REF. AE101 | SCALE: 3" = 1'-0"

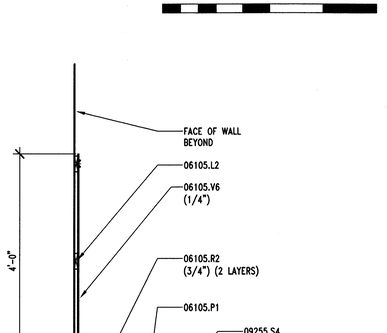
4" 3" 2" 1" 0 2" 4" 8"



B3 | BULLNOSE TILE DETAIL

AE502 | REF. AE401 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

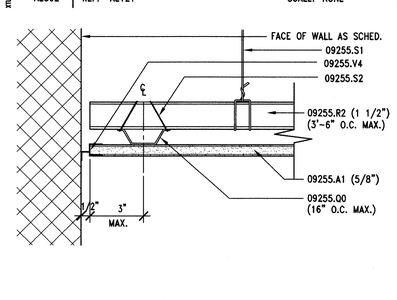


NOTE: ALL ROUGH WOOD MEMBERS SHALL BE PAINTED, SEE FINISH SCHEDULE.

B4 | SHELVING SECTION

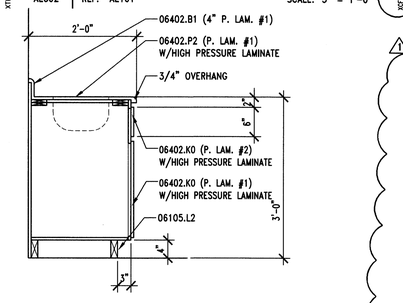
AE502 | REF. AE502 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0 1' 2' 4'



A1 | CEILING DETAIL

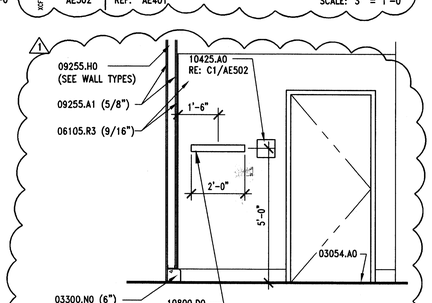
AE502 | REF. AE502 | SCALE: NONE



A2 | BASE CABINET SECTION

AE502 | REF. AE402 | SCALE: 3/4" = 1'-0"

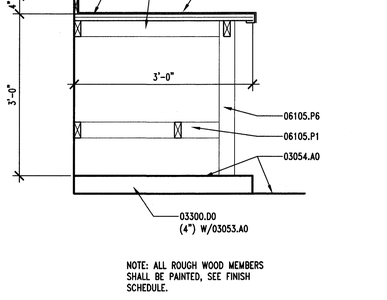
12" 8" 4" 0 6" 1' 2' 3'



A3 | MOP RACK DETAIL

AE502 | REF. AE401 | SCALE: 3/8" = 1'-0"

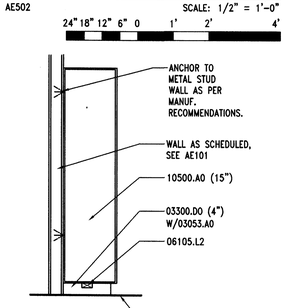
12" 6" 0 1' 2' 4'



B5 | SHELVING SECTION

AE502 | REF. AE502 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0 1' 2' 4'



A5 | LOCKER SECTION

AE502 | REF. AE402 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0 1' 2' 4'

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
03300.B1	CONCRETE SLAB - RE:STRUCTURAL
03300.D0	CONCRETE PAD (SIZE)
03300.G0	CONCRETE OVER METAL DECK - RE:STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.H1	CONCRETE PIER, RE: STRUCTURAL
03300.N0	CONCRETE CURB (HEIGHT)
05310.A1	METAL DECK - RE: STRUCTURAL
06105.L2	BLOCKING AS REQUIRED
06105.P1	2 x 4
06105.P6	4 x 4
06105.R2	SHEATHING - PLYWOOD (THICKNESS) GRADE (SIZE)
06105.V6	PEGBOARD (THICKNESS)
06105.R3	PROTECTION BOARD (THICKNESS)
06402.B1	PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.C1	PAINT GRADE WOOD CAP (THICK.)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT WITH DRAWERS (FINISH)
06402.P2	COUNTERTOP (FINISH)- P. LAM. ON 3/4" PLYWOOD
07901.A0	CONT. SEALANT
09255.A1	GYPSUM BOARD (THICKNESS)
09255.A2	WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2	TYPE "X" GYPSUM BOARD (THICKNESS)
09255.C3	CEMENT BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUDS, (SIZE, SPACING)
09255.M2	METAL CORNER BEAD (TYP.)
09255.Q0	7/8" METAL FURRING CHANNEL
09255.R2	CHANNEL (SIZE, SPACING)
09255.S1	8 GA. WIRE HANGERS
09255.S2	18 GA. WIRE TIES
09255.S4	14 GA. STAINLESS STEEL COUNTER TOP (FINISH)
09255.V4	VINYL TRIM
09300.A1	FLOOR TILE - SEE FINISH SCHEDULE
09300.B1	WALL TILE - SEE FINISH SCHEDULE
09300.C0	TILE BASE
09300.D1	BULLNOSE TRIM UNIT
09300.E1	1/2" X 6" TILE TRIM PIECE - SEE FINISH SCHEDULE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
10425.A0	ROOMM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10800.D0	MOP RACK
13125.E8	CORNER TRIM
13125.F0	METAL WALL PANEL
13125.L4	STEEL COLUMN - PRIMED AND PAINTED
13125.R0	INSULATION AND VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.

CLIENT

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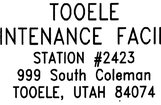
PROFESSIONAL SEAL



ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

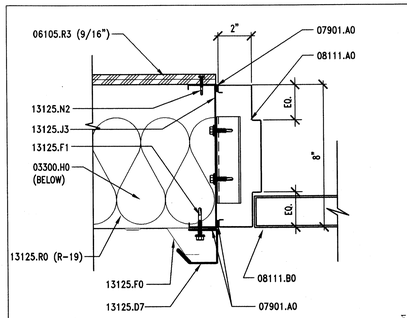
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

SIGNAGE AND MISC. DETAILS

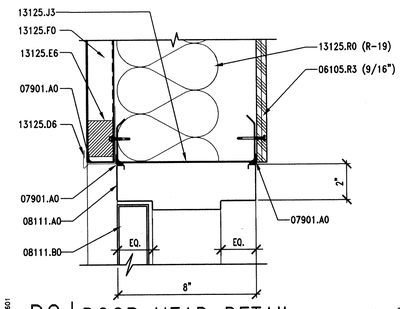
AE502



D1 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

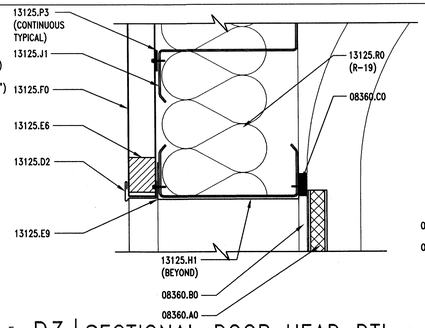
4" 3" 2" 1" 0 2" 4" 8"



D2 | DOOR HEAD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



D3 | SECTIONAL DOOR HEAD DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

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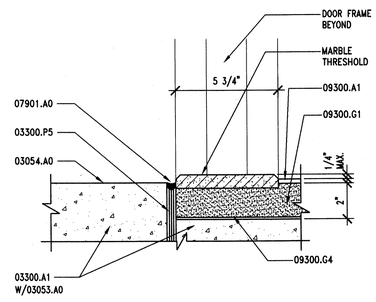

C1 | MARBLE THRESHOLD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

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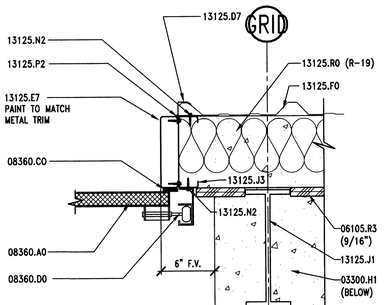
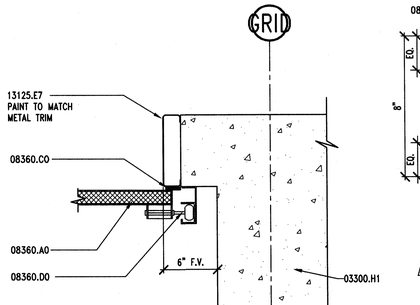


C2 | SECTIONAL DOOR JAMB DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

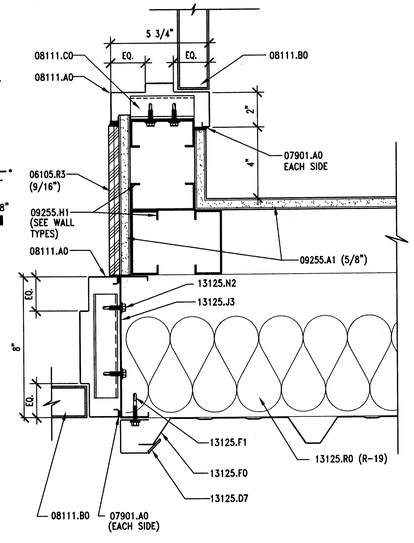
8" 6" 4" 2" 0 4" 8" 1'-4"



C3 | SECTIONAL DOOR JAMB DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

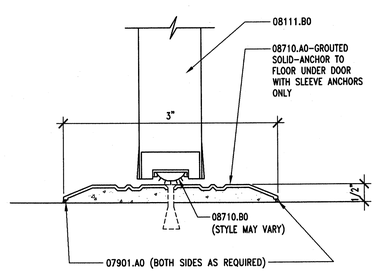
8" 6" 4" 2" 0 4" 8" 1'-4"



C4 | DOOR JAMB DETAIL

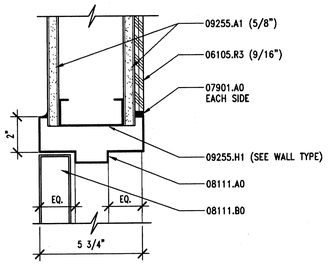
AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



B1 | THRESHOLD DETAIL

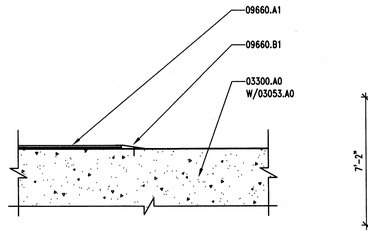
AE601 | REF. AE601 | SCALE: NONE



B2 | DOOR HEAD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

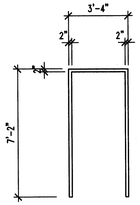
4" 3" 2" 1" 0 2" 4" 8"



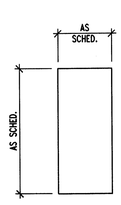
B3 | VCT-CONCRETE TRANSITION

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

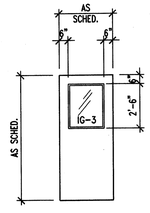
4" 3" 2" 1" 0 2" 4" 8"



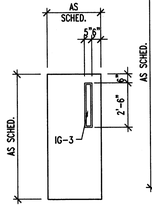
TYPE A



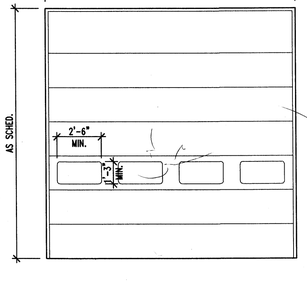
TYPE 1



TYPE 2



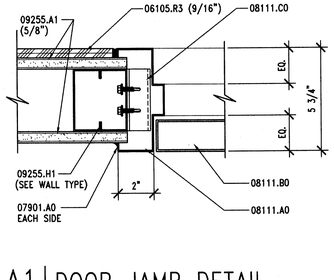
TYPE 3



TYPE 4

DOOR FRAME TYPES

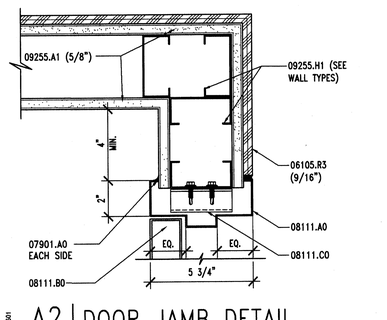
DOOR TYPES



A1 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

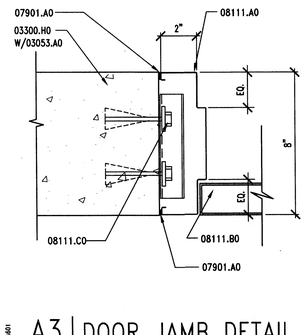
4" 3" 2" 1" 0 2" 4" 8"



A2 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



A3 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

DOOR SCHEDULE

DOOR #	ROOM #	DOORS TYPE	DOORS WIDTH	DOORS HEIGHT	DOORS THICK.	DOORS MATERIAL	DOORS FINISH	DOORS GLASS	FRAMES TYPE	FRAMES MATERIAL	FRAMES FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH.	LABEL	REMARKS
D101A	101	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	D2/AE601	D1 & A3/AE601	B1/AE601	–	INSULATED
D101B	101	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102A	102	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	D2/AE601	C4, A3 & D1/AE601	B1/AE601	–	INSULATED
D102B	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102C	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102D	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102E	102	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	D2/AE601	D1 & A3/AE601	B1/AE601	–	INSULATED
D102F	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102G	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D102H	102	4	14'-0"	14'-0"	–	ST	P. FIN.	T	–	ST	PT	D3/AE601	C2 & C3/AE601	–	–	SECTIONAL INSULATED DOOR
D103A	103	1	3'-0"	7'-0"	1 3/4"	HM	PT	–	A	HM	PT	B2/AE601	A2 & A1/AE601	–	20 MIN.	45 min.
D104A	104	1	3'-0"	7'-0"	1 3/4"	HM	PT	–	A	HM	PT	B2/AE601	A2 & A1/AE601	C1/AE601	–	
D105A	105	2	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	B2/AE601	A2 & A1/AE601	B3/AE601	–	
D106A	106	3	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	PT	B2/AE601	C4 & A1/AE601	B3/AE601	–	

HM = HOLLOW METAL
ST = STEEL
PT = PAINTED
P. FIN. = PRE-FINISHED
T = TEMPERED

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB ON GRADE – RE: STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.H1	CONCRETE PEIR, RE: STRUCTURAL
03300.P5	ISOLATION JOINT
06105.R3	PROTECTION BOARD (THICKNESS)
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR
08360.A0	OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0	WEATHERSTRIPPING
08360.D0	DOOR GUIDE
08710.A0	THRESHOLD
08710.B0	DOOR SWEEP
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H1	METAL STUDS (SIZE)
09300.A1	FLOOR TILE – SEE FINISH SCHEDULE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
09660.A1	VINYL COMPOSITION TILE
09660.B1	VINYL TRANSITION STRIP
13125.D2	METAL HEAD FLASHING
13125.D6	DOOR HEAD FLASHING
13125.D7	JAMB FLASHING
13125.E6	WALL CLOSURE
13125.E7	METAL OUTSIDE CLOSURE
13125.E9	FRAMED OPENING HEADER
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.H1	METAL ANGLE
13125.J1	STRUCTURAL GIRT – PAINTED
13125.J3	STRUCTURAL GIRT
13125.N2	FASTENER (SPACING)
13125.P2	SEALANT
13125.P3	THERMAL BREAK
13125.R0	INSULATION & VAPOR BARRIER (R-VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT
2. DO NOT SCALE DRAWINGS.
3. SEE SPECIFICATIONS FOR GLAZING SCHEDULE.
4. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS

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CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
95-310818-0301
11/29/06
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
1		ADDENDUM #1
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

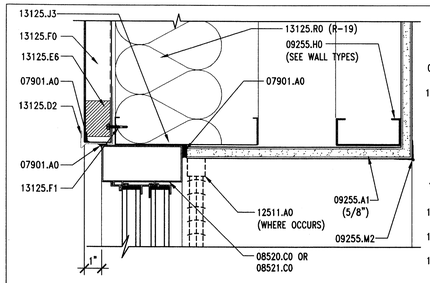
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

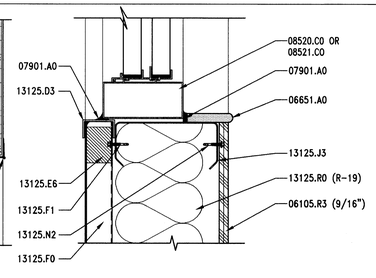
DOOR SCHEDULE
AND DETAILS

AE601



D1 | WINDOW HEAD DETAIL

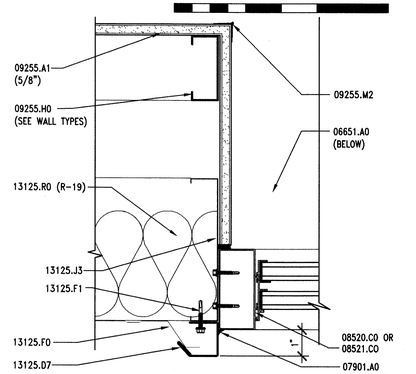
AE602 | REF. AE602 | SCALE: 3" = 1'-0"



D2 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

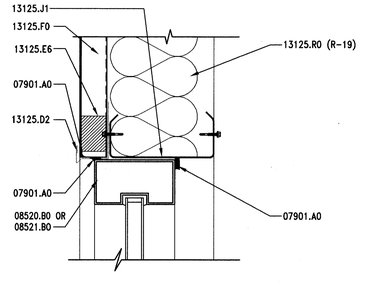
4" 3" 2" 1" 0 2" 4" 8"



C1 | WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

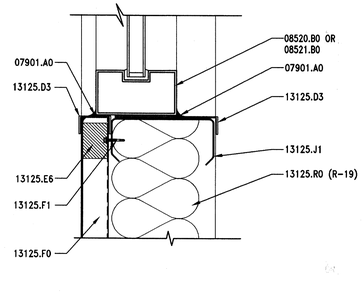
4" 3" 2" 1" 0 2" 4" 8"



C2 | WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

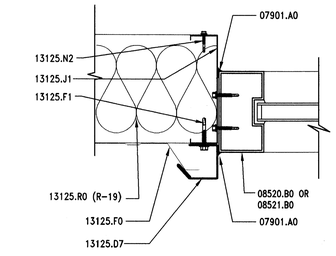
4" 3" 2" 1" 0 2" 4" 8"



C3 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

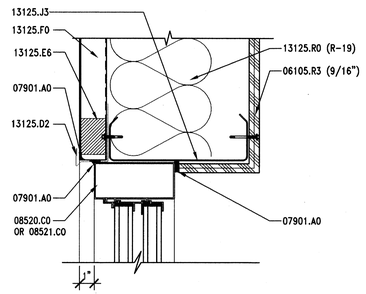
4" 3" 2" 1" 0 2" 4" 8"



B1 | WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

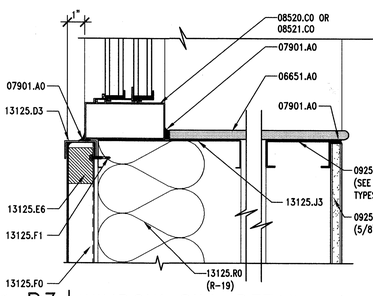
4" 3" 2" 1" 0 2" 4" 8"



B2 | WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

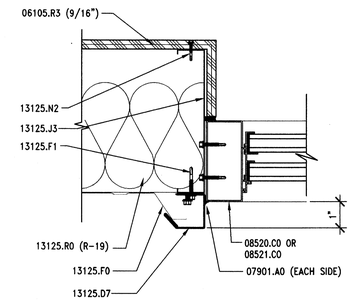
4" 3" 2" 1" 0 2" 4" 8"



B3 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

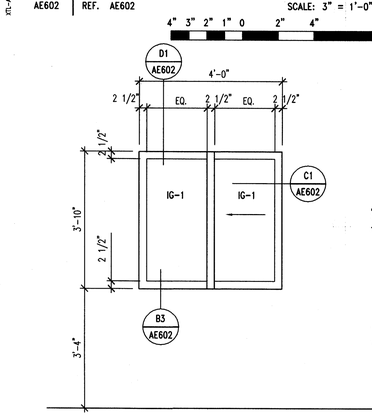
4" 3" 2" 1" 0 2" 4" 8"



A1 | WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"



ROOM FINISH SCHEDULE

ROOM NAME & NUMBER		FLOOR	BASE	WALLS				DOOR/FRAMES	P. LAM.	CEILING	REMARKS
				WEST	EAST	NORTH	SOUTH				
101	MAINTENANCE BAY	1	–	1 & 5	1, 3 & 5	1 & 5	–	1	–	3	PAINT ALL EXPOSED WOOD @ WORKBENCH TO MATCH PLYWOOD COLOR
102	REPAIR GARAGE	1	–	1 & 5	1 & 5	1, 3 & 5	1 & 5	1	–	3	–
103	STORAGE	1	2	3	3	3	3	1	3	2	–
104	RESTROOM	3	3	2 & 4	2 & 4	2 & 4	2 & 4	2	–	1	USE BULLNOSE AT TOP OF WAINSCOT
105	TRAINING ROOM	2	1	2	2	2	2	2	1 & 2	1	–
106	OFFICE	2	1	2	2	2	2	2	–	1	–
201	MEZZANINE	1	–	1	1 & 5	1 & 5	1	–	–	3	PAINT LOW WALL, CAP & DECK ANGLE TO MATCH DOOR COLOR #1

ROOM FINISH LEGEND

FLOOR	WALL	BASE	DOOR & FRAMES	PLASTIC LAMINATE	CEILING
1. CONCRETE FLOOR, WITH OLIOPHOBIC TOPICAL SEALER. 2. 12" x 12" VINYL COMPOSITION TILE – ARMSTRONG STANDARD EXCELON IMPERIAL TEXTURE #51858–SANDRIFT WHITE OR EQUAL 3. 2" x 2" CERAMIC TILE – DALTILE, KEYSTONES, MEXICAN SAND SPECKLE W/MAPEI GROUT #05 – CHAMOIS OR EQUAL	1. PROTECTION BOARD: C–C GRADE PLYWOOD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL 2. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL 3. GYPSUM BOARD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL 4. 4 1/4" x 4 1/4" CERAMIC WALL TILE – DALTILE #X735 – ALMOND – MATTE FINISH W/1/2" x 6" FLAT TOP LINER – DALTILE #K174 – MEXICAN SAND – SEMI–GLOSS FINISH OR EQUAL W/MAPEI GROUT #39 – IVORY OR EQUAL 5. METAL BUILDING EXPOSED STRUCTURE – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL.	1. 4" RUBBER BASE – JOHNSONITE #49 – BEIGE OR EQUAL 2. 4" RUBBER BASE – JOHNSONITE #38 – PEWTER OR EQUAL 3. 2" x 2" COVED TILE BUILT UP BASE – DALTILE, #MB58 – KEYSTONES, MEXICAN SAND SPECKLE OR EQUAL	1. PAINTED – BENJAMIN MOORE #2124–30 DEEP SILVER OR EQUAL 2. PAINTED – ICI #427 – DEERFIELD OR EQUAL	1. COUNTER TOP/CABINET FACE – WILSONART #4781–60 SUNSTONE OR EQUAL 2. CABINET FACE – WILSONART #4784–60 WINDSWEPT BRONZE OR EQUAL 3. SHELVING – WILSONART #073–60 PEWTER OR EQUAL	1. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL 2. GYPSUM BOARD – PAINTED BENJAMIN MOORE #2127–60 – FEATHER GRAY OR EQUAL 3. METAL BUILDING EXPOSED STRUCTURE – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL.

KEYNOTES

06105.R3 PROTECTON BOARD (THICKNESS)
06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL

07901.A0 CONT. SEALANT

08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

09255.A1 GYPSUM BOARD (THICKNESS)
09255.H0 METAL STUD
09255.M2 METAL CORNER BEAD (TYP)

12511.A0 HORIZONTAL LOUVER BLINDS

13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D7 JAMB FLASHING
13125.E6 WALL CLOSURE
13125.F0 METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.J1 STRUCTURAL GIRT – PAINTED
13125.J3 STRUCTURAL GIRT
13125.N2 FASTENER (SPACING)
13125.R0 INSULATION & VAPOR BARRIER (R–VALUE)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS

3. ALL FLASHING TO BE PAINTED TO MATCH WINDOW FRAMES

4. SEE SPECIFICATIONS FOR ALL GLAZING TYPES.

CLIENT

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DESIGNER

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CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95–310818–0301
1/24/07
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
1	01/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

WINDOW FRAME TYPES, GLAZING & FINISH SCHEDULES AND DETAILS

AE602

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code — International Building Code 2003
2. Roof Snow Load
   a. Ground Snow Load — $P_g = 43$ psf
   b. Snow Importance Factor — $I_s = 1.0$
   c. Snow Exposure Coefficient — $C_e = 1.0$
   d. Thermal Exposure Coefficient — $C_t = 1.0$
   e. Roof Snow Load — $P_f = 0.7*C_e*C_t*I_s*P_g = 30$ psf plus Snow Drift
3. Mezzanine Floor Loads
   a. Dead — 54 psf
   b. Live — 125 psf
4. Seismic Loads
   a. Short Period Mapped Spectral Acceleration — $S_S = 0.834$
   b. Soil Site Class — D
   c. Short Period Site Coefficient — $F_a = 1.17$
   d. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 * F_a * S_S$
   e. Seismic Importance Factor — $I_e = 1.00$
   f. Response Modification Coefficient — $R = 4.0$
   g. Seismic Response Coefficient — $C_s = S_{DS} * I_e / R$
   h. W — Dead Loads of Structure
   i. Building Seismic Design Category — D
   j. System Overstrength Factor — 3.0
   k. Deflection Amplification Factor — 3.0
   l. Base Shear — $V = C_S * W = 0.163$ W (Strength Design)
4. Wind Loads
   a. Wind Velocity (3 Second Gust) — 90 mph
   b. Exposure Type — C
   c. Wind Importance Factor — 1.00

FOUNDATION

1. Soils Investigation Report: Terracon Consultants, Inc., dated October 9, 2006.
2. Soil bearing pressure: 2700 psf on undisturbed native soil or properly compacted structural fill.
3. Frost Protection: 30 inches minimum.
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in the soils report.

EARTHWORK

1. Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi); Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Admixtures:
      i. Air-entraining admixtures comply with ASTM C 260 (when used).
      ii Calcium chloride shall not be added to the concrete mix.
   e. Type I cement complying with ASTM C-150 shall be used for all concrete.
   f. The water/cement ratios shall meet the requirements of ACI 318.
   g. Provide air entraining as recommended by ACI 318.
   h. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
   a. Footings .... 3,000 psi
   b. Interior Slabs on Grade .... 4,000 psi
   c. Walls .... 3,000 psi
   d. Normal Weight concrete over Steel Deck .... 3,500 psi
   e. All Site Concrete .... 4,000 psi
3. 5 1/2" thick (total thickness) normal weight concrete slab shall be poured over the steel deck. Reinforce slab with 6" x 6" - W2.1/W2.1 welded wire fabric minimum, unless noted otherwise. Welded Wire Fabric shall be placed 1" to 1-1/2" below the top of the slab.
   a. At contractor's option, the welded wire fabric may be substituted with 100% virgin polypropylene synthetic fiber containing no reprocessed olefin materials and specifically manufactured to an optimum gradation for use as concrete secondary reinforcement. Application shall be 1.5 lbs minimum per cubic yard.
4. Only one grade or type of concrete shall be poured on the site at any given time.
5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
   b. Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day specified compressive strength.
6. Reinforcement shall have the following concrete cover:
   Cast-in-place Concrete: .... Clear Cover
   a. Cast against and permanently exposed to earth .... 3"
   b. Formed concrete exposed to earth or weather:
      #6 thru #18 bars .... 2"
      #5 and smaller bars .... 1-1/2"
   c. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists; #11 bars and smaller .... 3/4"
      Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals .... 1-1/2"
7. Construction Joints and Control Joints:
   a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab
      ii. Tooled joints a depth of 1/4 the thickness of the slab
   c. Install construction or control joints in slabs on grade at a spacing not to exceed 75 times the slab thickness in any direction for reinforced slabs, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
   d. In exposed areas, install construction or control joints in concrete over metal deck at a spacing not to exceed 10 feet o/c. Coordinate location with architectural drawings.
8. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
9. Detailing:
   a. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" on sheet S601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
   d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
   g. See detail B2/S501 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

EPOXY

1. Epoxy shall be "HIT HY 150 MAX" or "HIT RE 500 " by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast" by Rawl, or approved equal.
2. All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed.
3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
4. Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

1. Material:
   a. Other shapes & Plates — ASTM A36
   b. Deformed Bar Anchors (DBA) — ASTM A496
   c. Bolted Connections: — ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
   a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
   b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
   c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
   e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding
   a. All welding and cutting shall be performed by AWS certified welders.
   b. Use E-70 XX or as noted otherwise.
   c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
   d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors(HSAs).
   e. Do not weld anchor bolts, including "tack" welds.
   f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
4. Bolted Connections:
   a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition.
   b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
   c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
   d. Bolts, nuts and washers shall not be reused.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the deck under a three span condition.
3. All deck supporting members shall be dry before welding.
4. Crimp seams before button punching or welding interlocking seams.
5. Where deck is to receive sprayed-on fire proofing, deck shall be coated, as required, with special paint that will allow the sprayed-on fire proofing to adhere to the deck.

Steel Floor Deck
   a. Steel floor deck shall be 2" deep X 20 gauge minimum Non-Composite Formlock deck with interlocking side seams and #10 screws at 8" o.c. with the following properties:

	20 Gauge
Minimum S ($in^3/_{ft}$) =	0.361
Minimum I ($in^4/_{ft}$) =	0.423

   b. Steel deck with 5 1/2" thick (overall thickness) normal weight concrete slab shall have a minimum diaphragm shear capacity of 450 lbs/ft. for a 1 deck span.
   c. Deck Attachment:
      i. Frame Fastening: #12 STS @ 36/4 Pattern.
      ii Stitch Fastening: (1) # 10 STS per plan.
   d. Attach interlocking seams with 3/16" Ø button punch at 18" o.c., or with 1 1/2" top seam weld at 36" o.c. or with Verco PunchLok System at 36" o.c. or with ASC DeltaGrip Sytsem at 36"o/c Closer spacings may be used to develop minimum shear requirements.
   e. Provide a 2-inch minimum bearing at supports.

COLD-FORMED STEEL

1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).
2. Light Gauge Steel Framing:
   a. Galvanized steel must meet the minimum requirements of ASTM A446 Grade D (Fy = 50 ksi) for 12, 14 and 16-gauge and ASTM A446 Grade A (Fy = 33 ksi) for 18-gauge and lighter. Galvanized coatings must meet the ASTM A525 specification.
   b. Follow all manufacturers' recommendations for the use of these products.
   c. Unless noted otherwise, all welded connections shall be done according to AWS standards.
   d. All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The kl/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o/c. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.
3. Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Shop Drawings shall bear the stamp of a Professional Engineer registered in the State of Utah.

PREFABRICATED METAL BUILDING

1. The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
2. Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop drawings.
3. Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
4. The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are:

1. Soils (IBC 1704.7)
   a. Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the soils report.
   b. During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the soils report.
   c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report.
      i. Continuous Footing Backfill: At each compacted backfill layer, at least one test for each 25 linear feet or less of wall length, but no fewer than 2 tests.
      ii. Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.
   d. See specifications for further requirements.
2. Concrete placement (IBC Section 1704.4)
   a. Continuous special inspection shall be provided
   b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards or each day's production if less than 50 cubic yards.
   c. See specifications for further concrete testing requirements.
3. Bolts installed in concrete (IBC Section 1704.4)
   a. All bolts shall be inspected prior to and during concrete placement.
4. Embeds and Inserts installed in concrete (IBC Section 1704.4)
   a. All embeds and inserts shall be inspected prior to and during concrete placement.
5. Concrete reinforcing steel placement (IBC Section 1704.4)
   a. All Reinforcing shall be inspected prior to concrete placement.
6. Structural welding, including steel deck (IBC 1704.3)
   a. Periodic special inspection of metal floor prior to concrete placement and roof decks.
   b. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
   c. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
   d. Continuous special inspection of complete and partial penetration welds.
7. High Strength bolted connections (IBC Section 1704.3.3)
   a. Periodic special inspection of bearing type connections.
   b. Continuous special inspection of slip critical connections. Special inspector shall be present to observe the pre-installation testing and calibration procedures.
8. Epoxy Anchors (IBC Section 1704.13)
   a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. Prefabricated Metal Building

LEGEND OF MARKS AND ABREVIATIONS

AB	ANCHOR BOLT(S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CC.	CENTER-TO CENTER
C.J.	CONST/CONTROL JOINT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CTR	CENTER
CW-x	CONCRETE WALL
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.F.	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
EQ	EQUAL
E.W.	EACH WAY
EXST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FC-x	CONTINUOUS FOOTING MARK
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.F.	FINISHED FLOOR
FS-x	SQUARE FOOTING MARK
FT	FOOT
FTG	FOOTING
FTS-x	THICKEN SLAB MARK
GA	GAUGE
GALV	GALVANIZED
GSN	GENERAL STRUCTURAL NOTES
HORIZ	HORIZONTAL
HT	HEIGHT
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
IBC	INTERNATIONAL BUILDING CODE
I.F.	INSIDE FACE
IN.	INCH
INT	INTERIOR
JT	JOINT

JST	JOIST
k	KIP(S) = 1000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
LBS	POUNDS
LF	LINEAL FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSV	LONG SIDE VERTICAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
REINF	REINFORCING
REQD	REQUIRED
SHT	SHEET
SI	SPECIAL INSPECTION
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
STS	SELF TAPPING SCREWS
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE
THDS	THREADS
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

CLIENT

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PROFESSIONAL SEAL

LICENSED PROFESSIONAL ENGINEER
CHRISTIAN LEE HOFHEINS
No. 323828
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

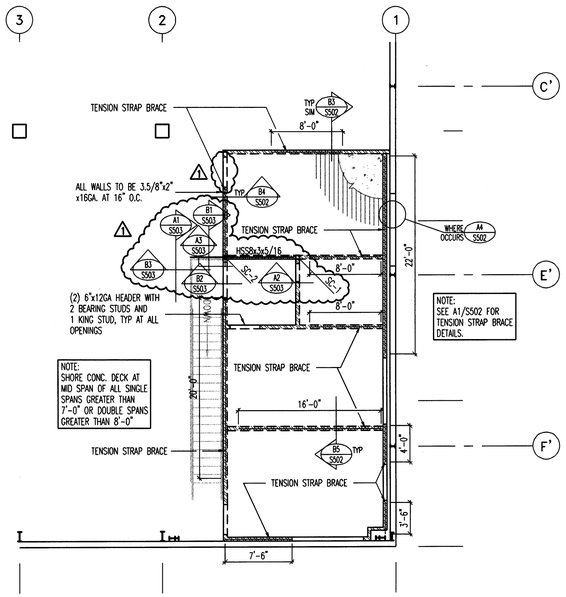
DFCM PROJECT NO:	06033900
BHB PROJECT NO:	06251
DRAWN BY:	L. ANDERTON
CHECKED BY:	-
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

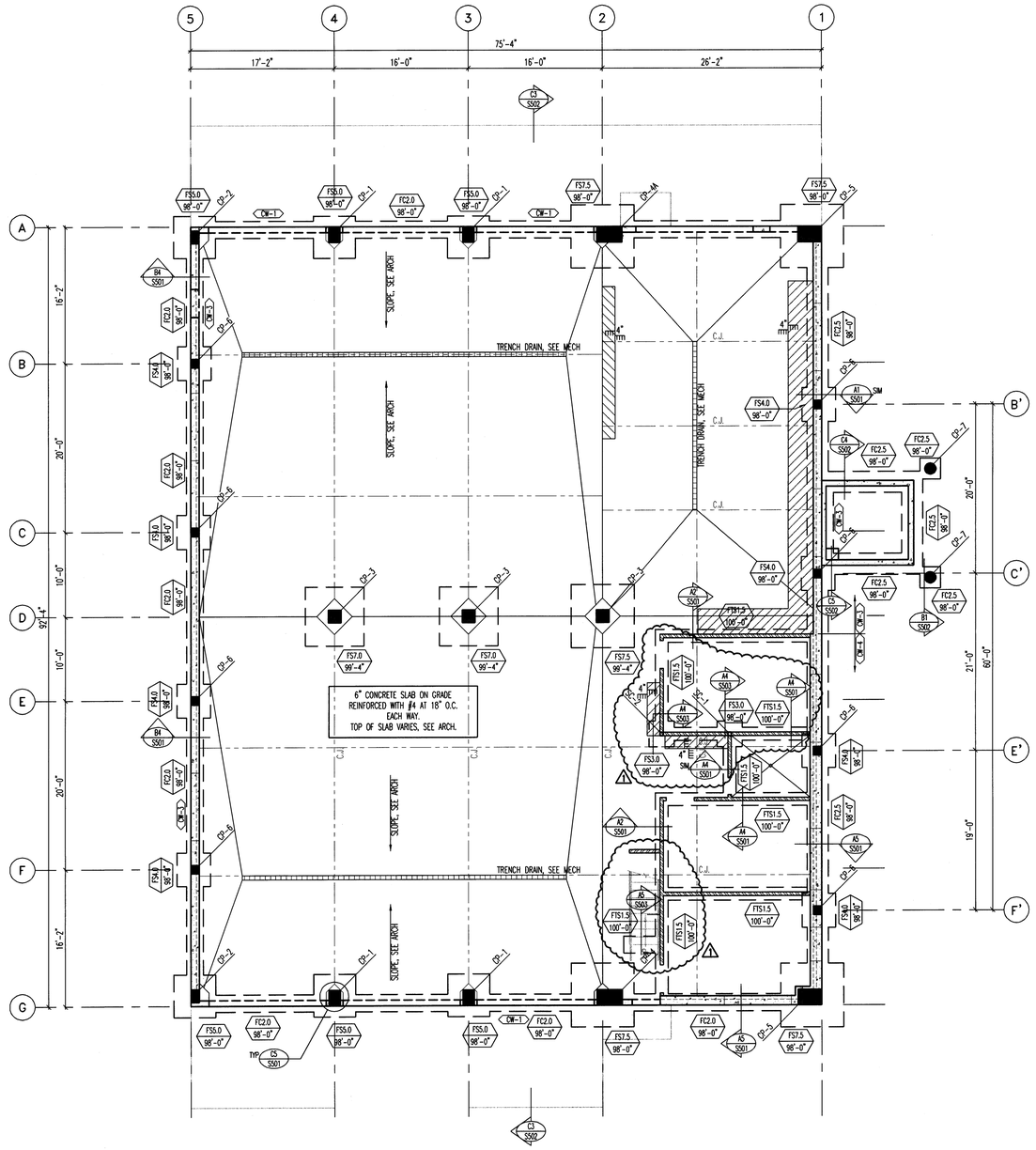
GENERAL STRUCTURAL NOTES

S001



MEZZANINE FRAMING PLAN

SCALE: 1/8"=1'-0" 0 4' 8' 16'



FOOTING AND FOUNDATION PLAN

SCALE: 1/8"=1'-0" 0 4' 8' 16'

NORTH

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- FOOTING DESIGNATION / TOP OF FOOTING ELEVATION
- INDICATES CONCRETE WALL.
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL B4/S501 AND C3/S502.
- INDICATES CONCRETE OVER METAL FLOOR DECK. SEE GENERAL STRUCTURAL NOTES ON SHEET S001.
- INDICATES 4" THICK CONCRETE HOUSE-KEEPING PAD. REINF WITH #4 BARS AT 12" O.C. EACH WAY.
- CWx — INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S601.
- FCxx — INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601.
- FSxx — INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S601.
- CPx — INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET S601.
- C.J. — INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C3/S501 AND C4/S501.
- SC-x — INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S601.

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
4. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
5. SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
6. SEE DETAIL C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
7. SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
8. SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
9. SEE DETAIL A3/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
11. FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

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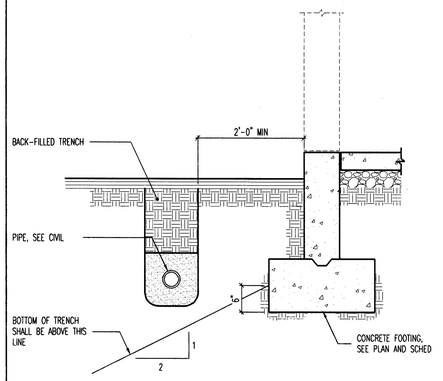
KEY PLAN

SHEET TITLE

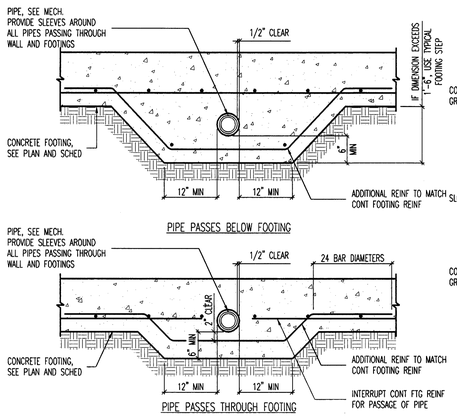
FOOTING AND FOUNDATION PLAN

S101



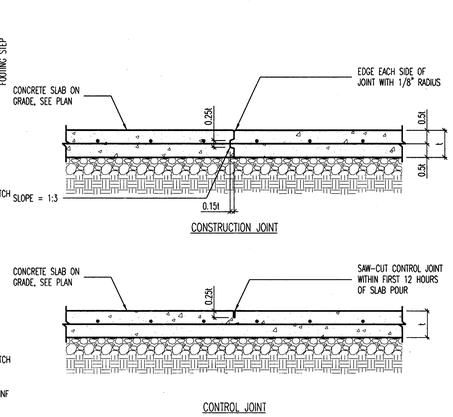
C1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING

NO SCALE



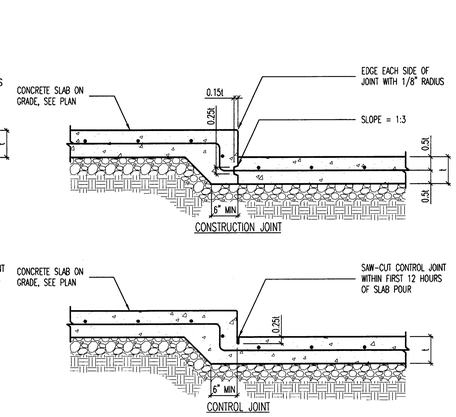
C2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING

NO SCALE



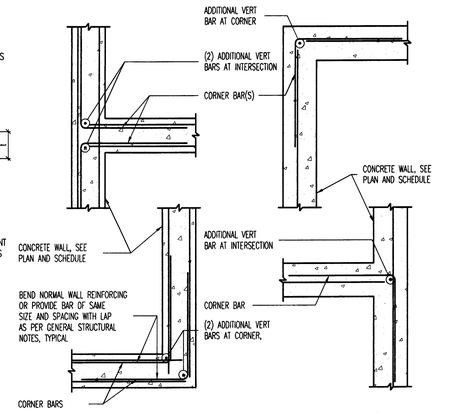
C3 TYPICAL SLAB ON GRADE JOINT DETAILS

NO SCALE



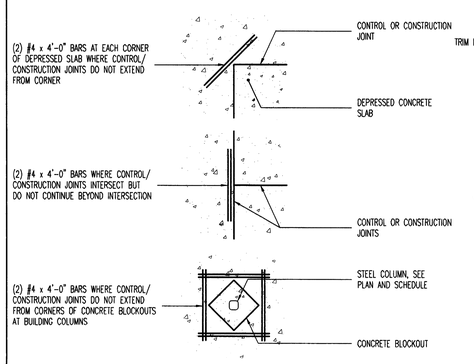
C4 JOINT DETAILS AT SLAB DEPRESSIONS

NO SCALE



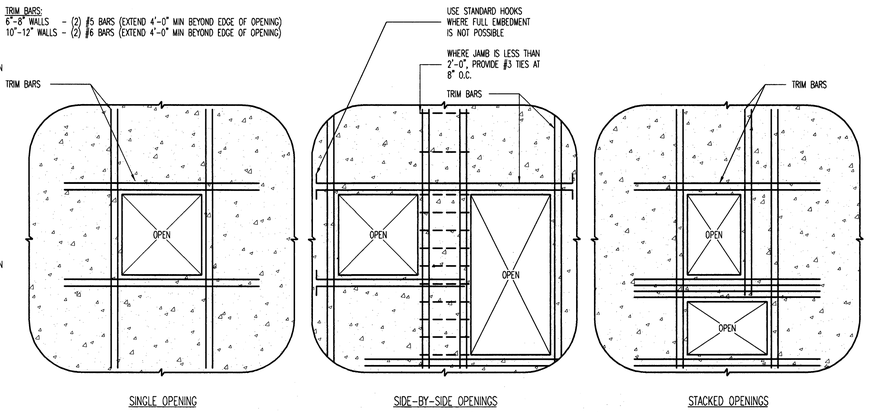
C5 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW]

NO SCALE



B1 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]

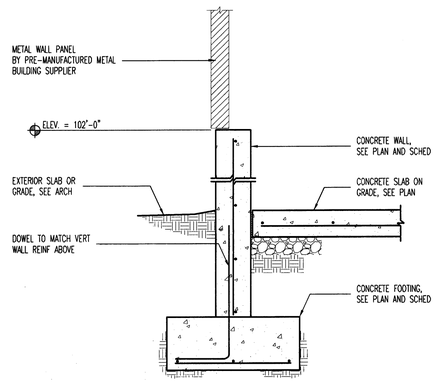
NO SCALE



B2 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS

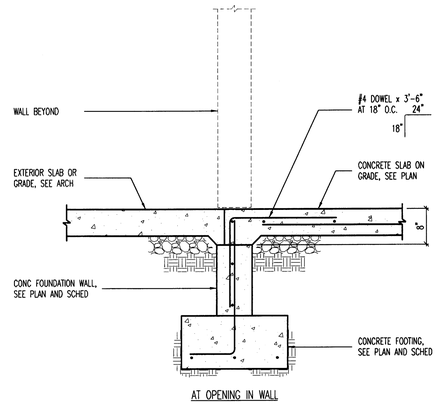
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.

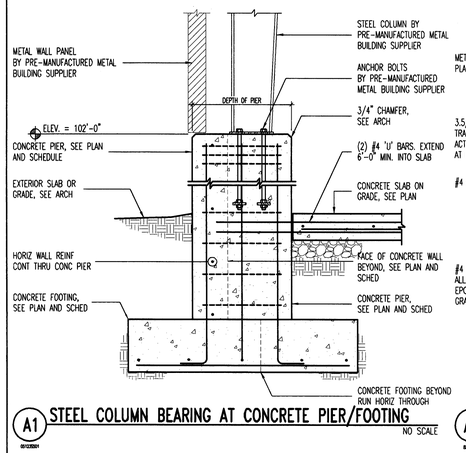
NO SCALE



B4 FOUNDATION WALL DETAIL

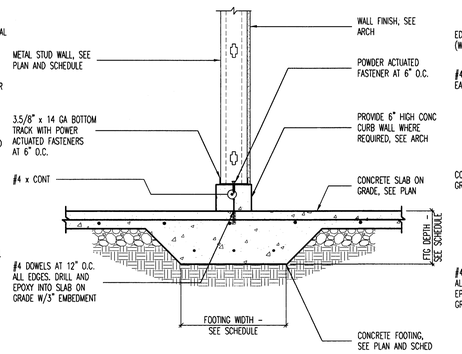
NO SCALE





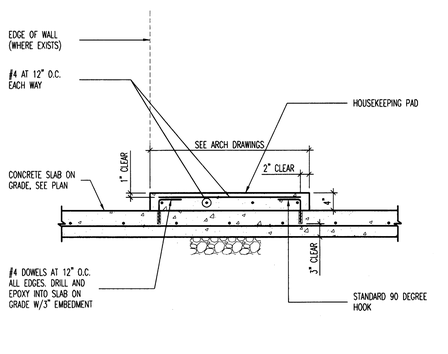
A1 STEEL COLUMN BEARING AT CONCRETE PIER/FOOTING

NO SCALE



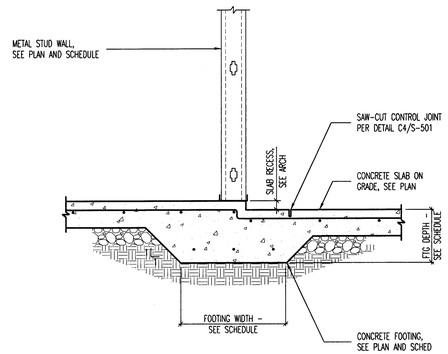
A2 THICKENED SLAB FOOTING AT INTERIOR STUD WALL

NO SCALE



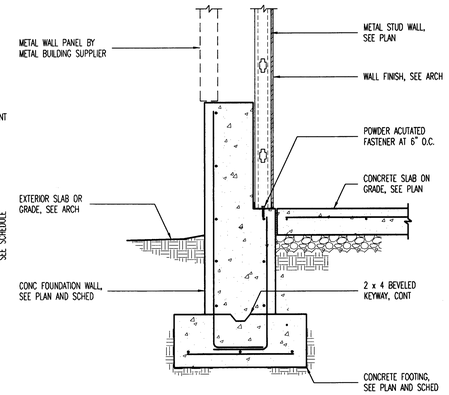
A3 TYPICAL HOUSEKEEPING PAD

NO SCALE



A4 RECESSED SLAB AT THICKENED SLAB FOOTING

NO SCALE



A5 METAL STUD WALL AT FOOTING

NO SCALE

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KEY PLAN

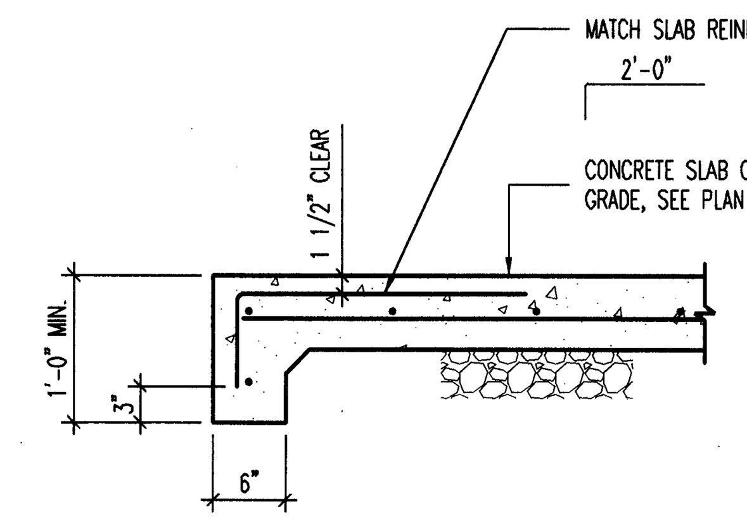
SHEET TITLE

FOOTING AND FOUNDATION DETAILS

S501

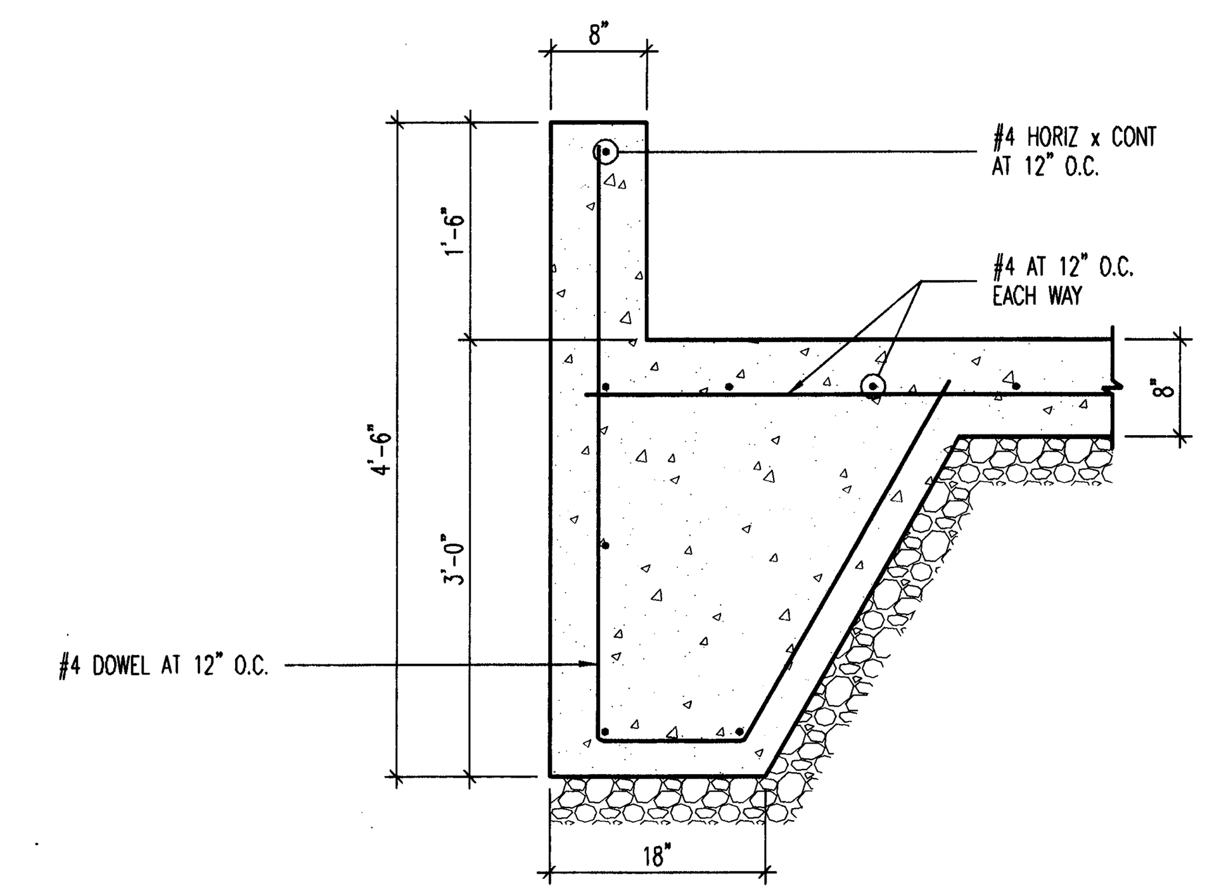
C1 NOT USED

C2 NOT USED



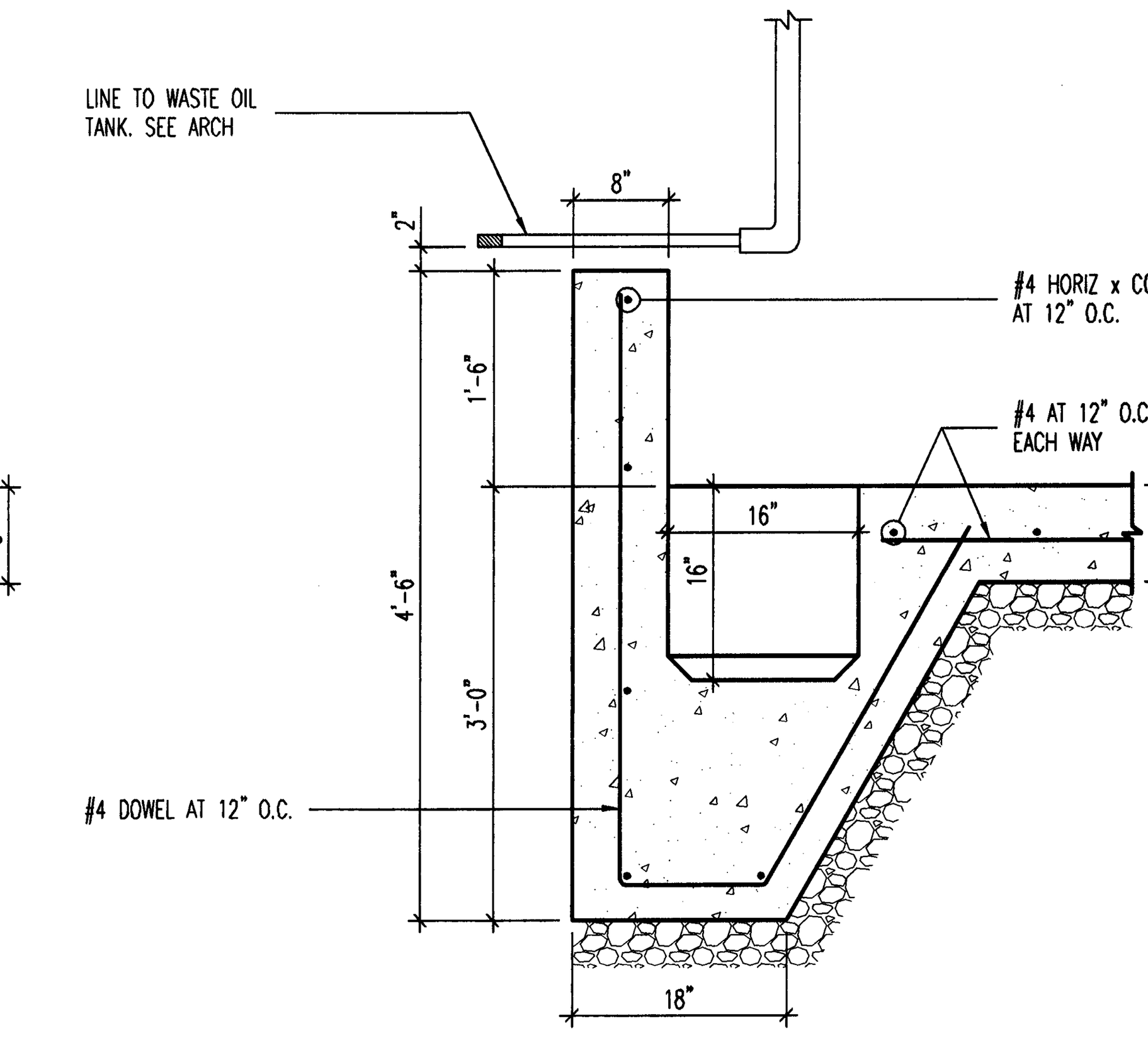
C3 SLAB TURNDOWN DETAIL

NO SCALE



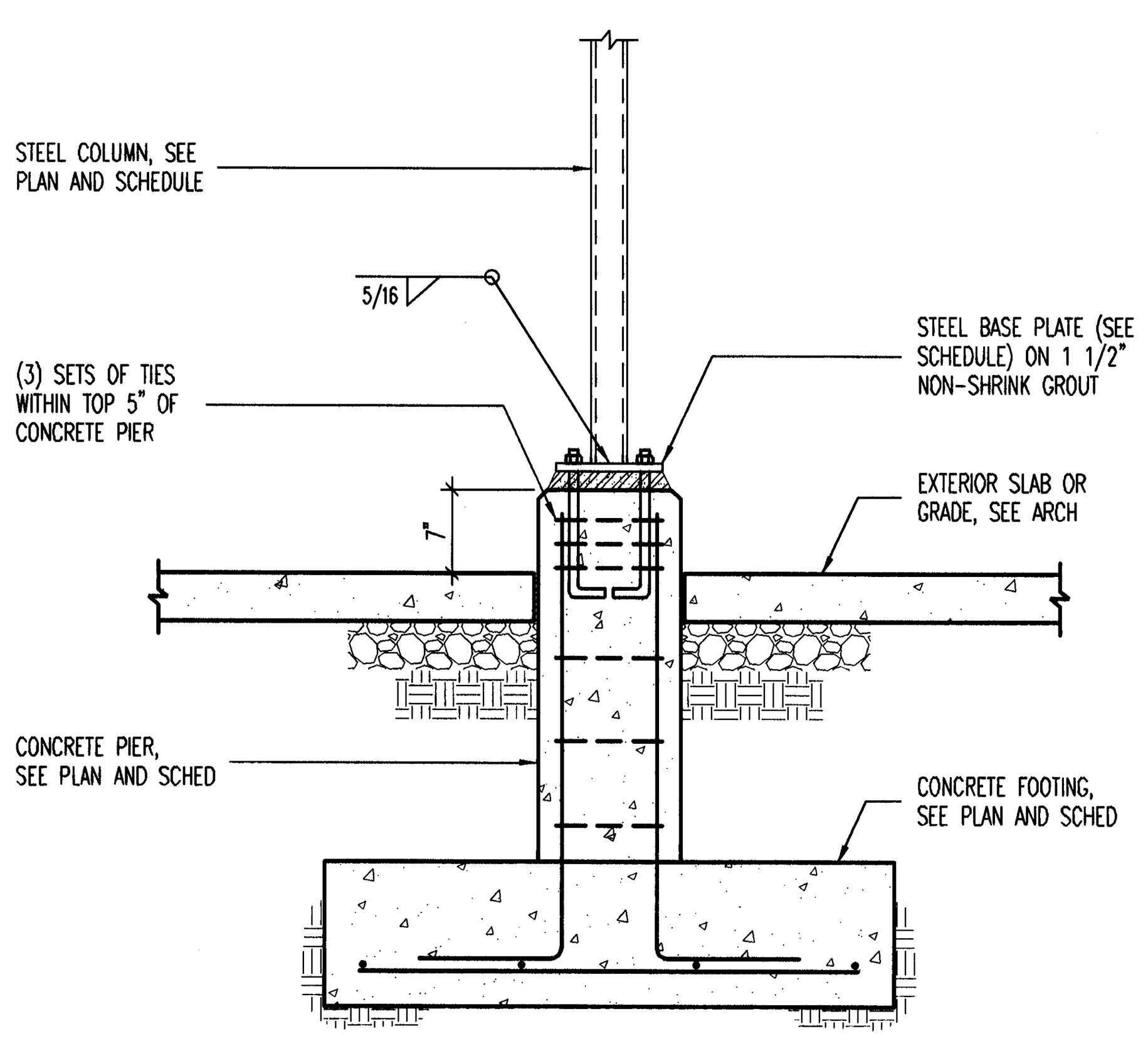
C4 WASTE OIL SLAB DETAIL

NO SCALE

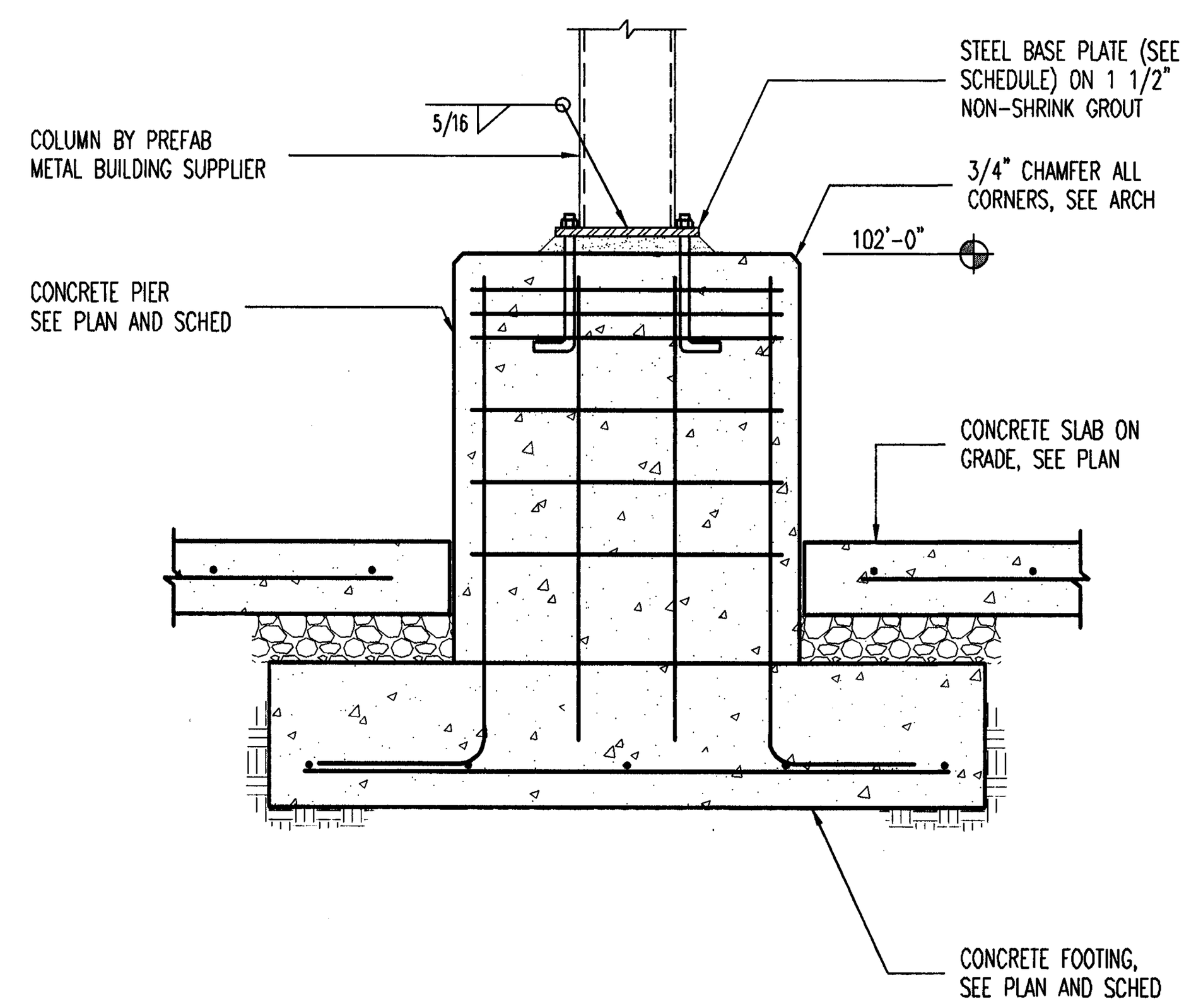


C5 WASTE OIL SLAB DETAIL

NO SCALE

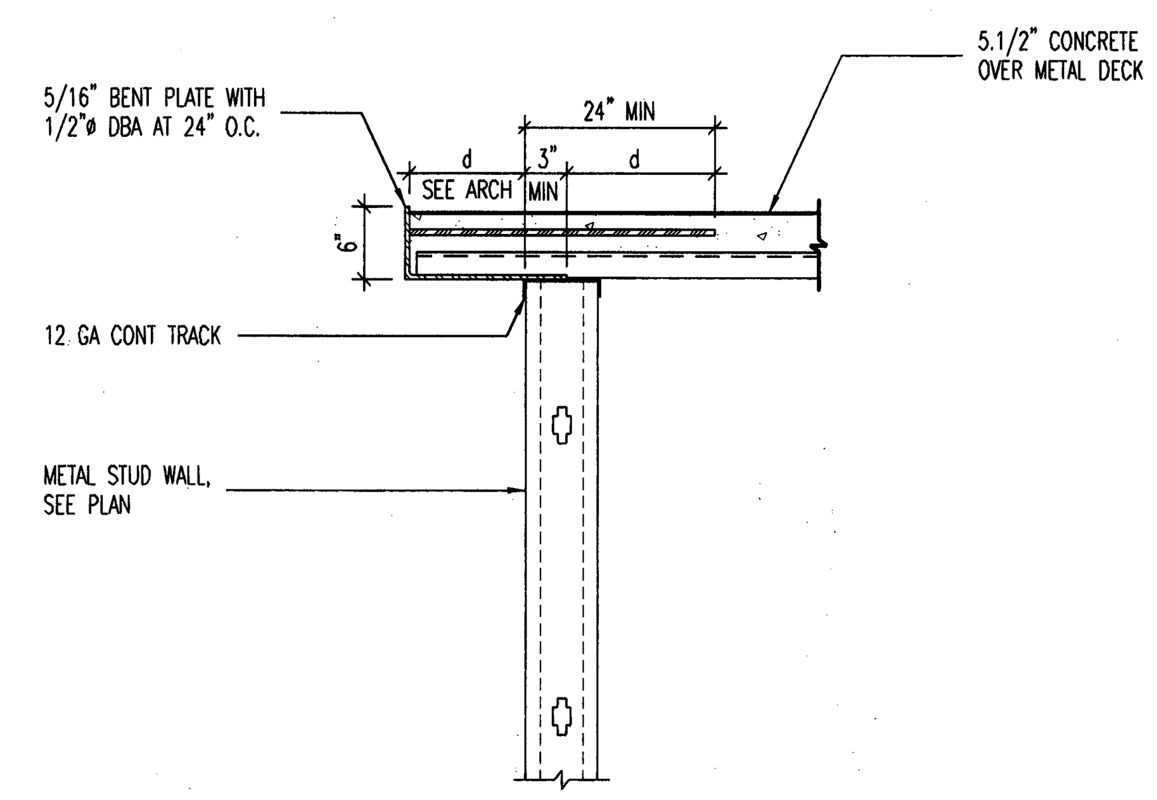


B1 EXTERIOR STEEL COLUMN BEARING ON CONCRETE PIER



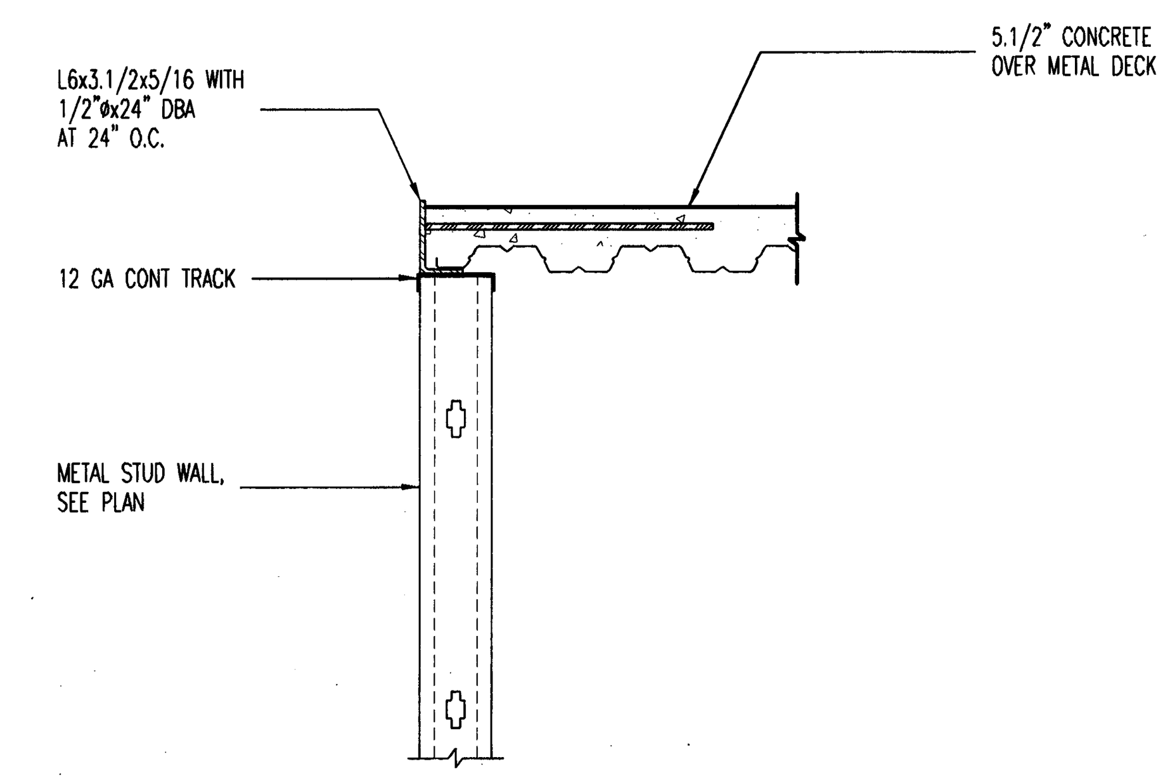
B2 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL

NO SCALE



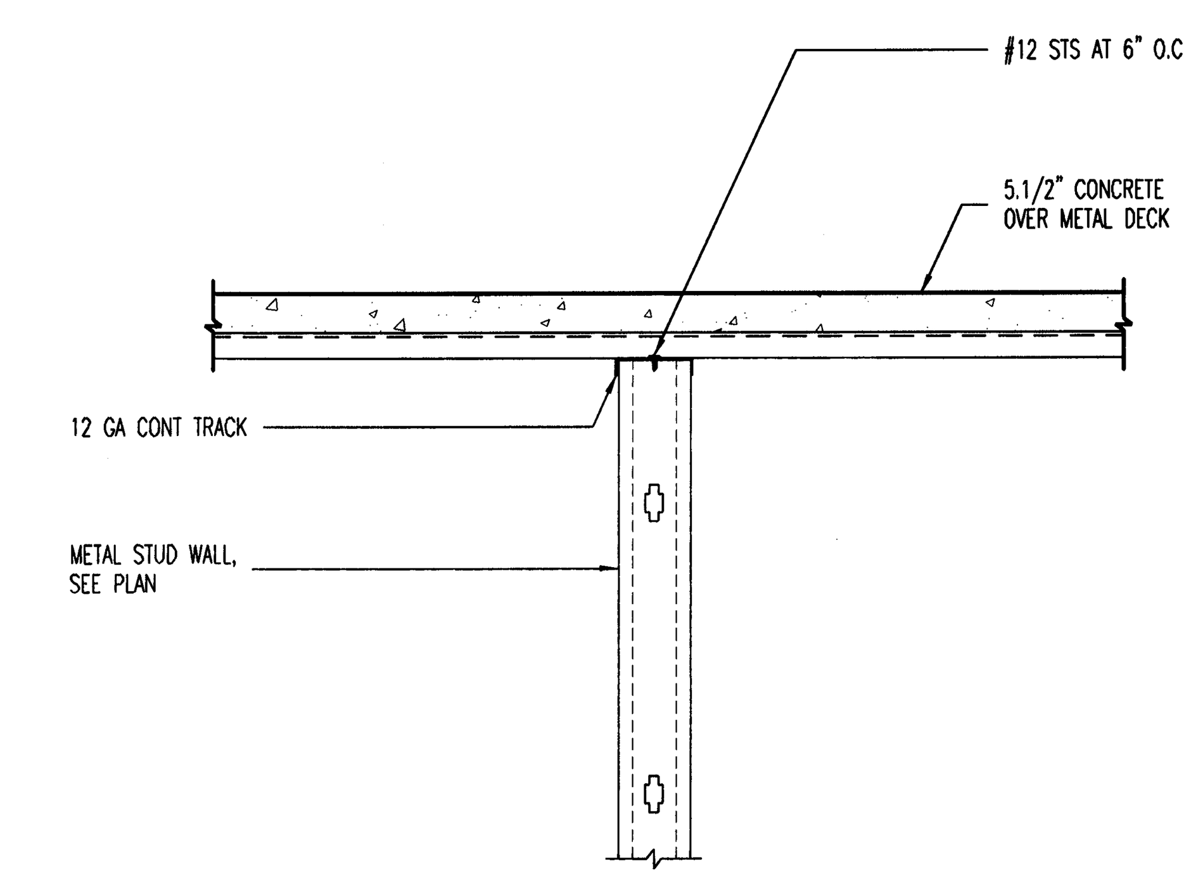
B3 STEEL DECK EDGE DETAIL PERPENDICULAR TO WALL

NO SCALE



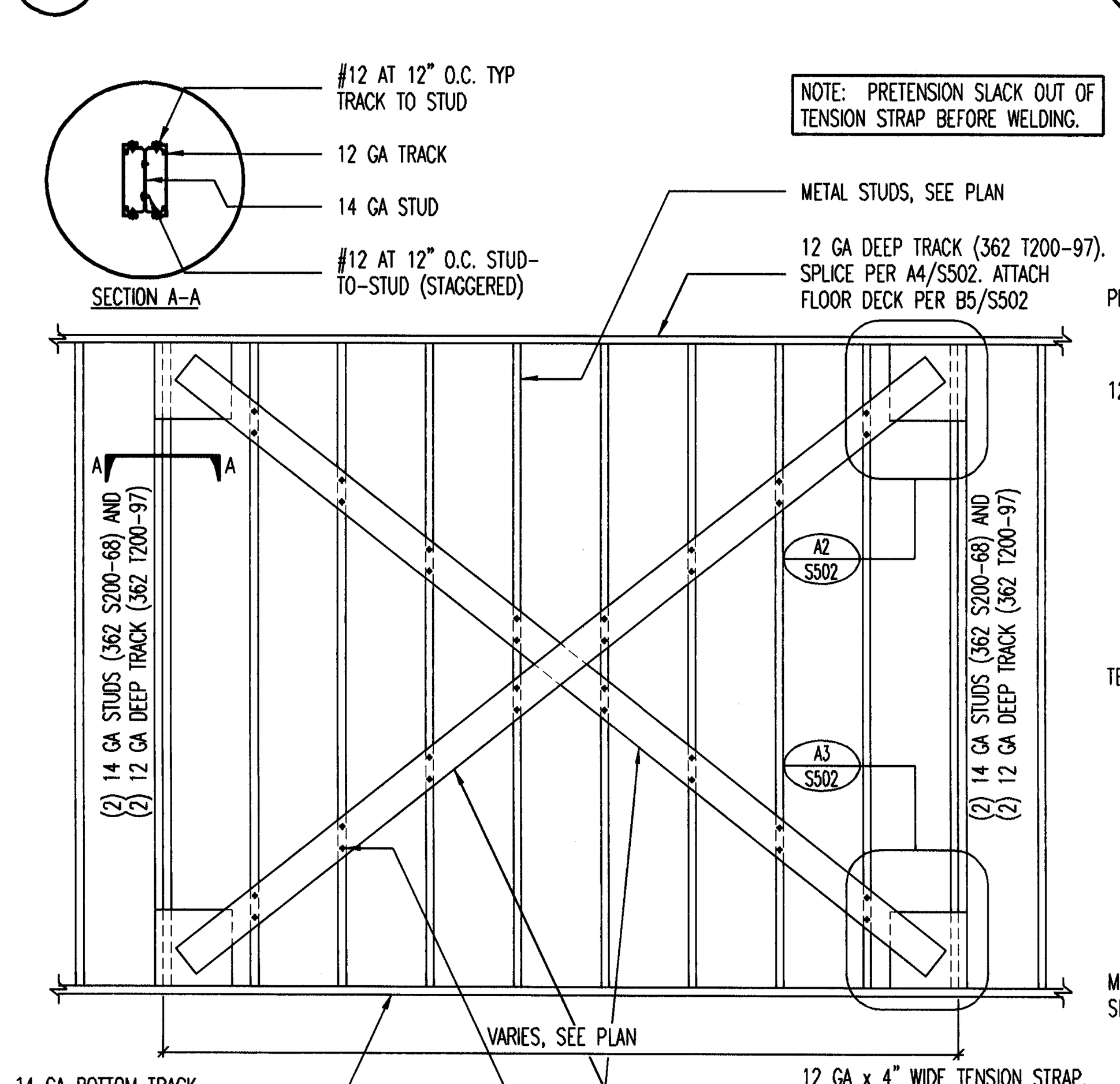
B4 STEEL DECK EDGE DETAIL PERPENDICULAR TO WALL

NO SCALE



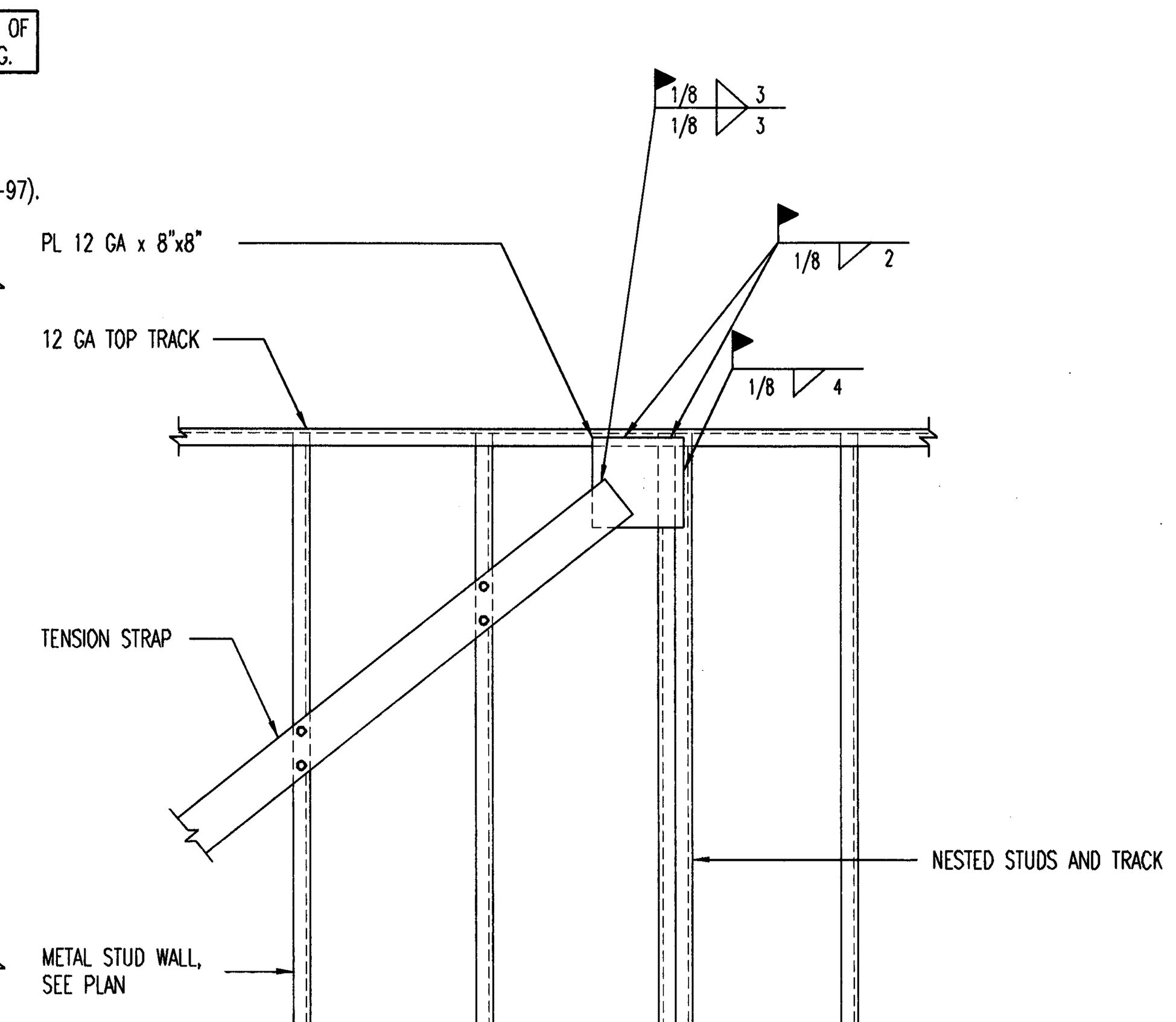
B5 STEEL DECK ON INTERIOR BEARING WALL

NO SCALE



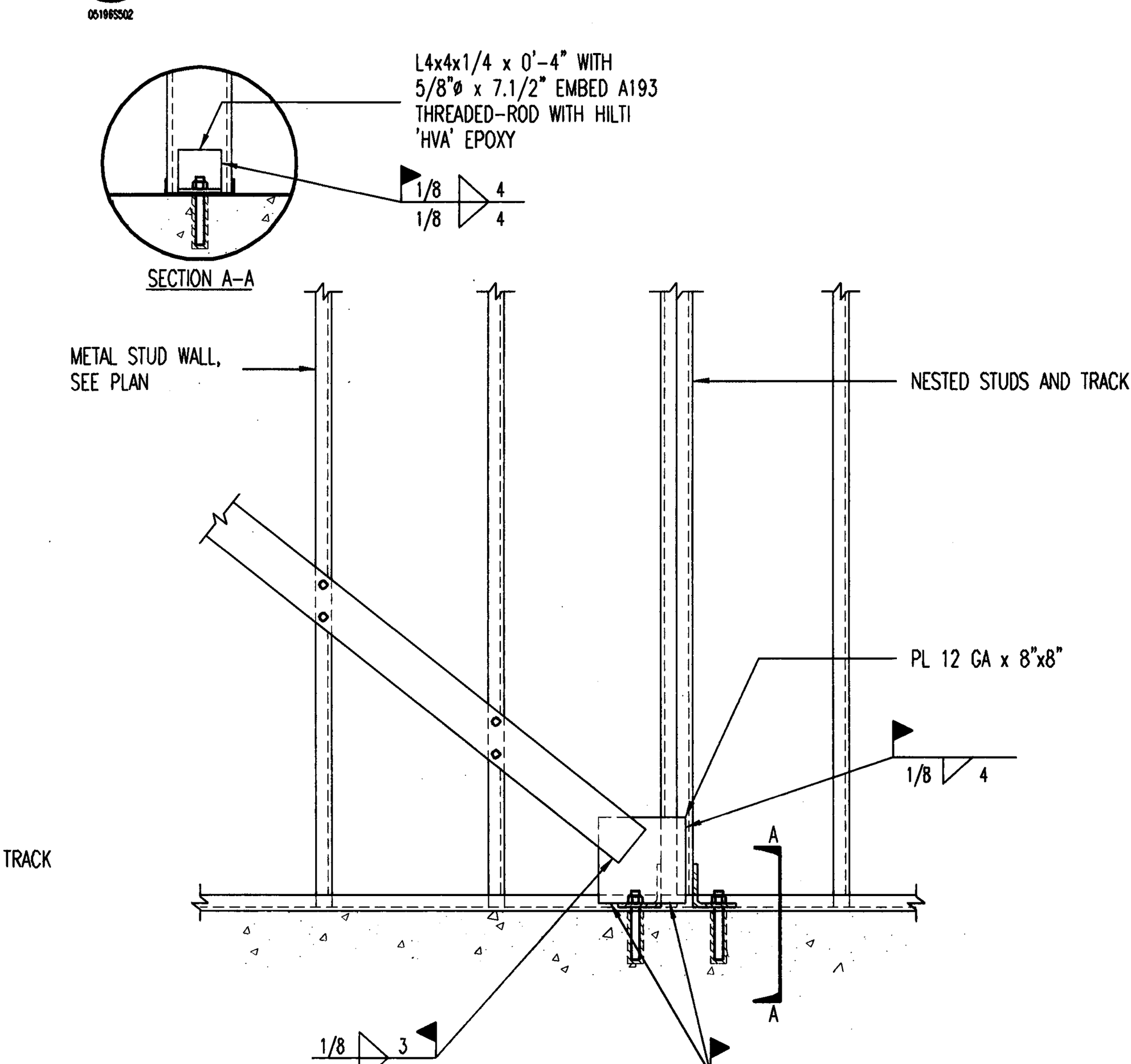
A1 TENSION STRAP BRACE

NO SCALE



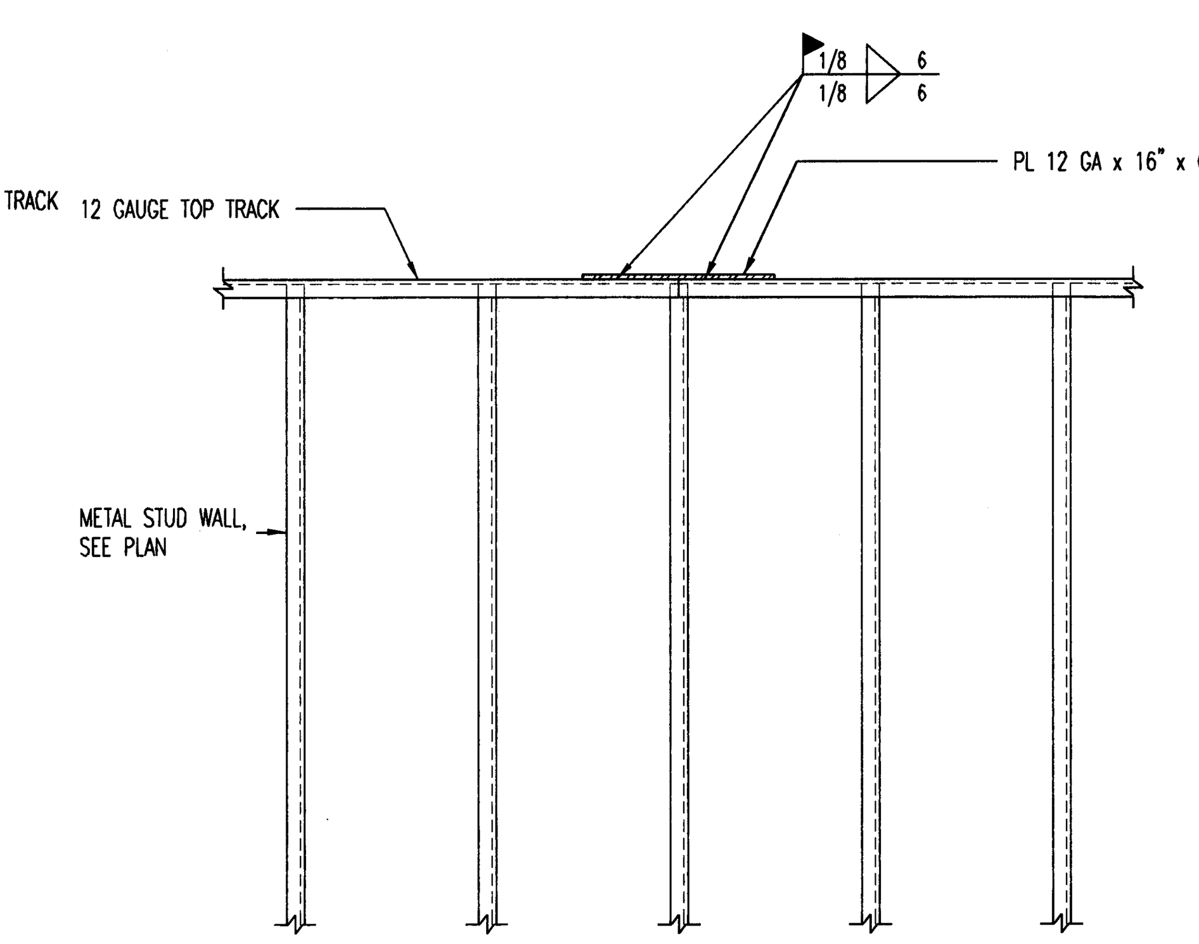
A2 TENSION STRAP BRACE

NO SCALE



A3 TENSION STRAP BRACE

NO SCALE



A4 TOP TRACK SPLICE DETAIL

NO SCALE

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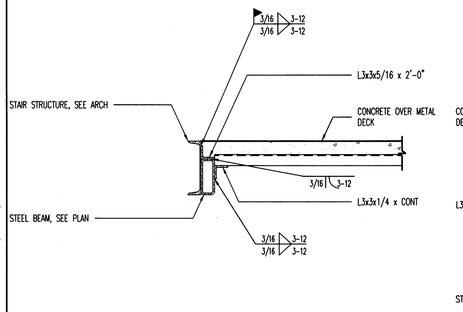
SHEET TITLE

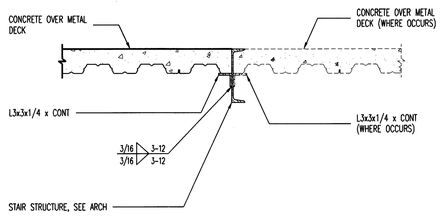
FOOTING AND FOUNDATION DETAILS

S502

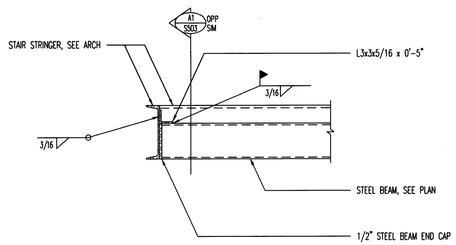
Q:\2006\06251\Struct\06251_S-502.dwg, 10/30/2006 12:57:25 PM, draft4, Larissa



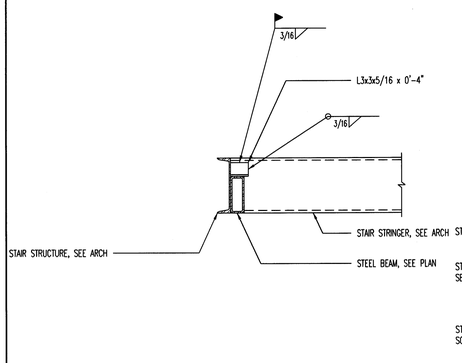
B1 STAIR LANDING DETAIL
NO SCALE



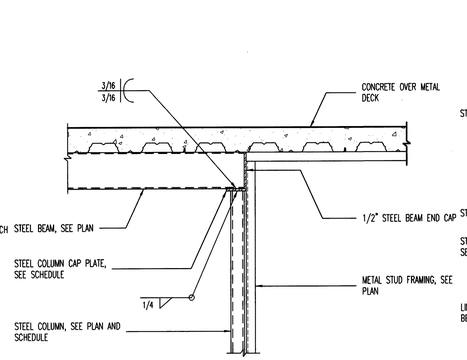
B2 STAIR LANDING DETAIL
NO SCALE



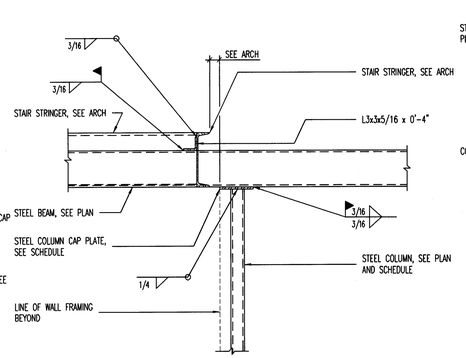
B3 STAIR LANDING DETAIL
NO SCALE



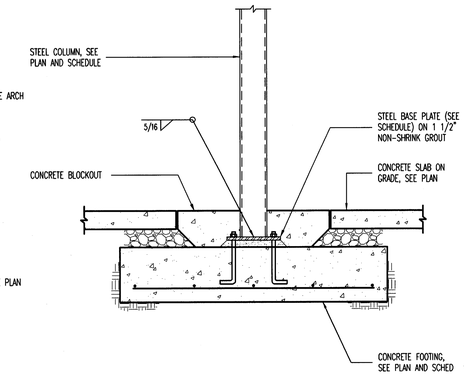
A1 DETAIL
NO SCALE



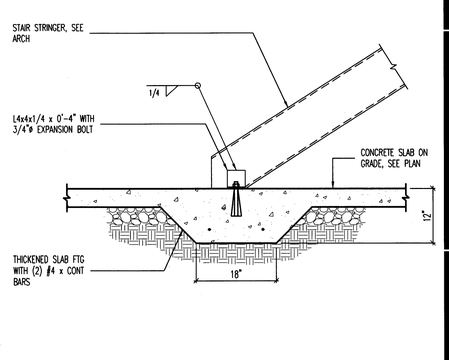
A2 DETAIL
NO SCALE



A3 DETAIL
NO SCALE



A4 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL
NO SCALE



A5 TYPICAL STAIR STRINGER BEARING DETAIL
NO SCALE

CLIENT

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SHEET TITLE

MEZZAZINE STAIR DETAILS

1 S503

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	–	–	–	–	2	#4	CONT	EQ	THICKENED SLAB
FC2.0	2'-0"	CONT	12"	–	–	–	–	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	–	#5	2'-0"	14"	3	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.0	7'-0"	7'-0"	14"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C1 CONCRETE FOOTING SCHEDULE
SCHED_CONC_FTG-22000-51000

NO SCALE

CONCRETE WALL SCHEDULE

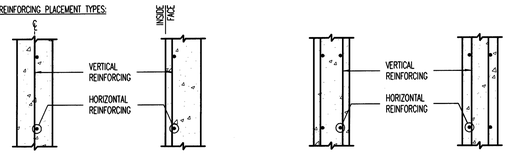
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	.
CW-2	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"
CW-3	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	
CW-4	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C	BELOW ELEV. 100'-0"

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:



TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'D'

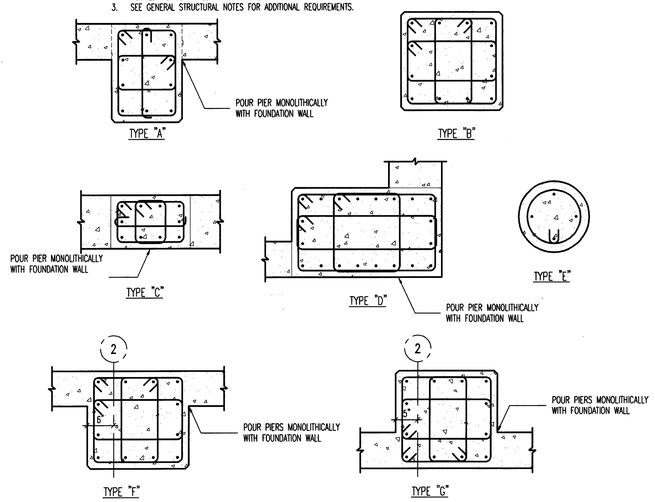
A1 CONCRETE WALL SCHEDULE
SCHED_CONC_WALL-01

NO SCALE

CONCRETE PIER SCHEDULE

MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	12" x 22"	(10) #5 BARS	(3) #3 AT 8" O.C.	A	
CP-2	18" x 12"	(10) #5 BARS	(3) #3 AT 8" O.C.	C	
CP-3	18" x 18"	(12) #5 BARS	(3) #3 AT 8" O.C.	B	
CP-4	22" x 32"	(20) #5 BARS	(3) #3 AT 8" O.C.	G	
CP-4A	22" x 36"	(20) #5 BARS	(3) #3 AT 8" O.C.	F	
CP-5	20" x 34"	(20) #5 BARS	(3) #3 AT 8" O.C.	D	
CP-6	12" x 12"	(8) #5 BARS	(3) #3 AT 8" O.C.	C	
CP-7	16"ø	(4) #5 BARS	#3 AT 8" O.C.	E	

CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



C2 CONCRETE PIER SCHEDULE
SCHED_CONC_PIER-01

NO SCALE

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

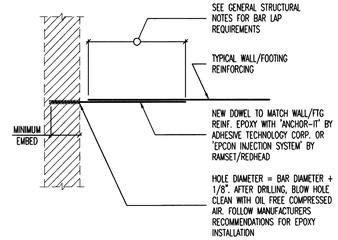
CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. SPLICES FOR BUNDLED BARS:
   a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
   d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A2 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE
SCHED_CONC_REINF-01

NO SCALE

EPOXY DOWEL EMBED SCHEDULE

DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6 1/2"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



C4 EPOXY DOWEL EMBED SCHEDULE
SCHED_MIS_MISC-01

NO SCALE

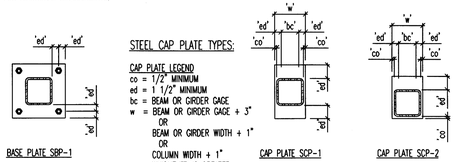
STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-1	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-2)	
SC-2	HSS3x3x1/4	1/2" (SBP-1)	1/2" (SCP-1)	

STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"ø ANCHOR BOLTS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ALL CAP PLATE BOLTS SHALL BE 3/4"ø A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
3. ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

STEEL BASE PLATE TYPES:

BASE PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = 3" MINIMUM



CAP PLATE LEGEND
co = 1/2" MINIMUM
ed = 1 1/2" MINIMUM
bc = BEAM OR GIRDER CAGE
w = BEAM OR GIRDER GAGE + 3"
OR
BEAM OR GIRDER WIDTH + 1"
OR
COLUMN WIDTH + 1"
WHICHEVER IS GREATER

A3 STEEL COLUMN SCHEDULE
SCHED_STL_COL-01

NO SCALE

1

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ISSUE		
1	1/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	06033900
BHB PROJECT NO:	06251
DRAWN BY:	L. ANDERTON
CHECKED BY:	–
SCALE:	AS SHOWN
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

STRUCTURAL SCHEDULES

S601

MECHANICAL LEGEND
(NOT ALL USED)

- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- SPIN-IN FITTING W/MVD
- FLEXIBLE DUCT
- CEILING SLOT DIFFUSER
- CEILING DIFFUSER
- CEILING EXHAUST GRILLE
- CEILING GRILLE
- ACCESS PANEL
- MANUAL VOLUME DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER (F)
- COMBINATION FIRE/SMOKE DAMPER (FS)
- THERMOSTAT OR TEMP SENSOR (1)
- POINT OF CONNECTION TO EXISTING
- DETAIL TAG — DETAIL NO., DRAWING NO.
- KEYED NOTE — NOTE NO.
- SECTION CUT LINE — SECTION NO., DRAWING NO.
- CONTROL TRANSFORMER (TRX)

GENERAL NOTES:

1. COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
2. ALL DUCTWORK SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-½" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
3. ALL DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
4. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
6. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
7. THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
8. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
9. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
10. ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
11. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. NOT USED
13. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
14. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
15. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
16. DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

AIR DEVICE SCHEDULE

GRILLE NUMBER — GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS
1	4-WAY SUPPLY	6"ø	SEE PLANS	20	0.05	176	IN DUCT	WHITE	PRICE #SCDA	①③④
2	4-WAY SUPPLY	8"ø	SEE PLANS	20	0.05	280	IN DUCT	WHITE	PRICE #SCDA	②③④
3	4-WAY SUPPLY	10"ø	SEE PLANS	21	0.05	436	IN DUCT	WHITE	PRICE #SCDA	②③④
4	RETURN	12" X 12"	SEE PLANS	15	0.06	630	OBD	WHITE	PRICE #80D	
5	TRANSFER GRILLE	12" X 12"	SEE PLANS	15	0.06	N.A.	N.A.	WHITE	PRICE #80D	

① 12" X 12" FACE MODULE ② 24" X 24" FACE MODULE ③ 3 CONCENTRIC CONES ④ SET FOR HORIZONTAL DISCHARGE

EXHAUST FAN SCHEDULE

SYMBOL	NO. REQ'D	LOCATION	CFM	TOTAL SP	LB'S	SONES	ROOF OR WALL OPENING	MOTOR HP	MOTOR ø	MOTOR CYCLES	MOTOR VOLTS	MOTOR RPM	COMMENTS
EF-1	AS SHOWN	RESTROOM	120	0.15	22	1.7	8/10	50 WATTS	1	60	120	1200	COOK #GC-240 ④⑤⑥
EF-2	AS SHOWN	VEHICLE SVC BAY	13200	0.25"	645	18.4	61" SQ.	2.0	3	60	208	321	COOK #54XLP ①②③⑦⑧⑨

① PROVIDE INSULATED HOUSING AROUND MOTOR ② CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH ③ INNER LOCK LOUVER MOTOR WITH FAN MOTOR ④ CEILING GRILLE ⑤ COOK WCA-2 WALL CAP AND DAMPER ⑥ CONTROL WITH MOTION DETECTOR ⑦ OUTLET LOUVER. SEE NOTE 10 ON DWG. M201 ⑧ MOTORIZED DAMPER. INTERLOCK DAMPER WITH FAN MOTOR ⑨ SAFETY INLET SCREEN

CONDENSING UNIT SCHEDULE

CODE	MFR. & MODEL NO.	SEN. MBH	AMB. TEMP.	SEER	SUCTION TEMP.	FLA	MCA	MOP	VOLTAGE/ PHASE	REMARKS
CU-1	TRANE #2TTB2042A100	31	95	13	45	18.8	23	40	208/1	①②③⑤⑥⑦⑧⑨

① PROVIDE WITH FUSED DISCONNECT ② CONNECT TO EVAPORATOR COIL IN F-1 ③ ANTI-SHORT CYCLE ④ NOT USED ⑤ PROGRAMMABLE THERMOSTAT ⑥ HIGH/LOW PRESSURE SWITCH ⑦ FACTORY INSTALLED ACCUMULATOR ⑧ NOMINAL 3.5 TON UNIT ⑨ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

FURNACE SCHEDULE

SYMBOL	INPUT BTU	OUTPUT BTU (2)	CFM	EXT S.P.	FAN SPEED	FILTER NO.	FILTER SIZE	MOTOR HP	MOTOR ø	MOTOR CYCLES	MOTOR VOLT	MOTOR DRIVE	MANUFACTURER AND MODEL NO.	COMMENTS
F-1	100,000	93,000	1400	0.5	1100 RPM	1	24"x25"x1"	3/4	60	1	115	DIRECT	TRANE #TUX100C960D	①③④⑥⑦⑧

① AFUE - 93 ② AT ELEVATION ③ R-22 ④ PROVIDE W/TXC050C4HPD EVAPORATOR ⑤ PROPANE GAS KIT ⑥ CONCENTRIC VENT KIT ⑦ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER ⑧ NATURAL GAS

GAS-FIRED RADIANT HEATERS

SYMBOL	LOCATION	INPUT BTU	WEIGHT	CONFIG	MOTOR AMPS	MOTOR VOLTS	MOTOR ø	MOTOR CYCLES	FLUE SIZE	MAKE AND MODEL NUMBER	COMMENTS
B-1	AS SHOWN	100,000	35	SEE PLANS	1.0 RUN	120	1	60	4"ø	ROBERTS GORDON CO-RAY-VAC #B-10	①②③④⑥

① ROBERS GORDON #EP-200 VACUUM PUMP, 3/4HP, 120 VOLT ② PROVIDE FRESH AIR INTAKE ③ 7-DAY PROGRAMMABLE THERMOSTAT ④ HEAT TREATED ALUMIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR ⑤ PROPANE GAS ⑥ NATURAL GAS

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — ALAN D. SPENDLOVE 166979 — STATE OF UTAH — 10/30/06

NOT VALID UNLESS SIGNED

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

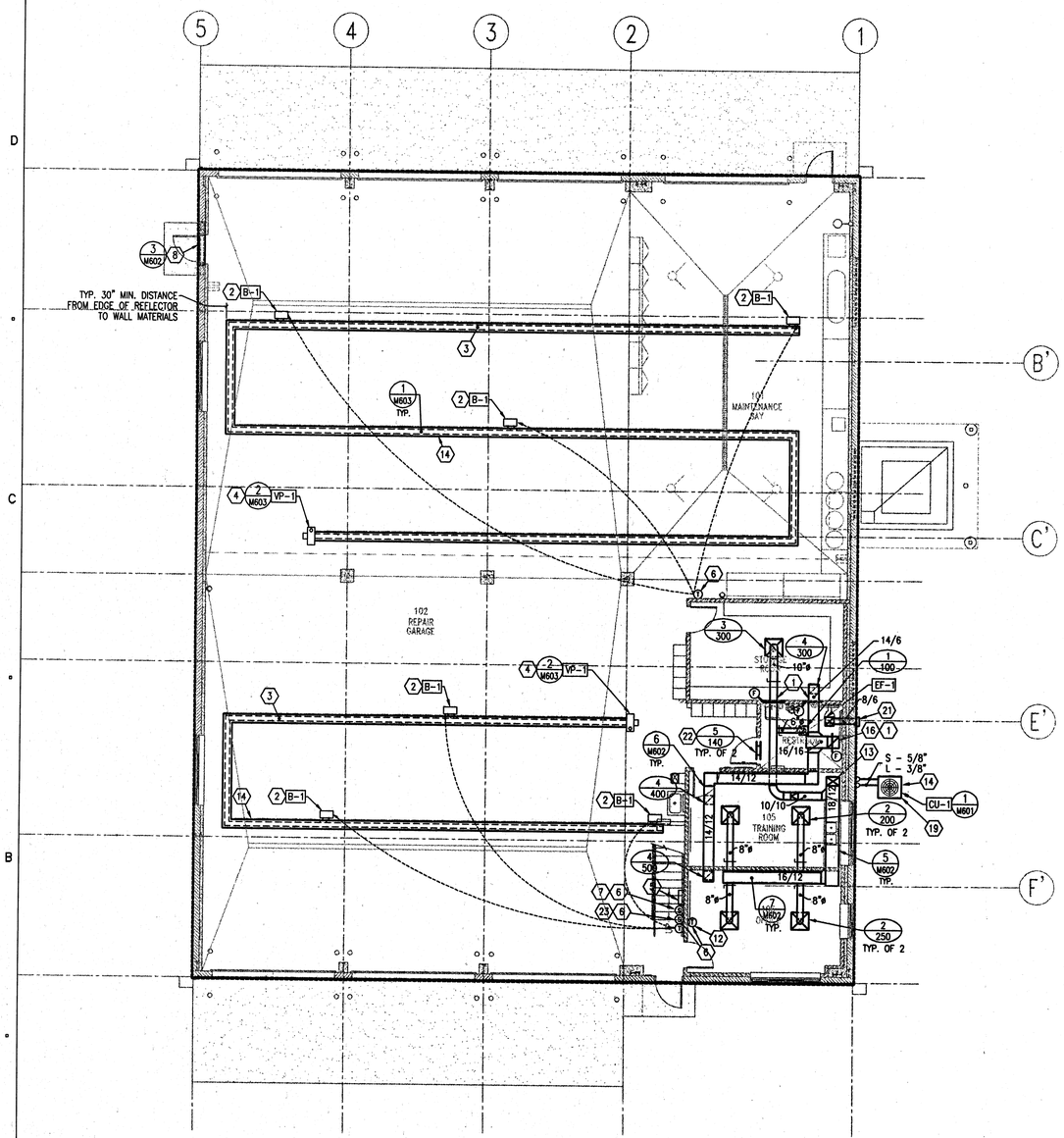
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
PVE PROJECT NO:	06196.00.01
DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

MECHANICAL SCHEDULE SHEET

M001



1 M201 MECHANICAL FLOOR PLAN
SCALE:1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

2 M201 MEZZANINE FLOOR PLAN
SCALE:1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

REVISED FLOOR PLAN 1

KEYED NOTES:

1. PROVIDE FIRE DAMPER AND DUCT ACCESS DOOR.
2. 4" COMBUSTION THROUGH ROOF.
3. MOUNT RADIANT HEATERS PARALLEL WITH ROLL UP DOORS. (TYPICAL)
4. 4" TYPE B FLUE THROUGH ROOF. INSTALL PER MANUFACTURERS RECOMENDATIONS.
5. RADIANT HEAT SYSTEM CONTROL PANELS.
6. MOUNT 5'-0" AFF.
7. CARBON MONOXIDE DETECTOR. INTERLOCK THROUGH AUTO/ON SWITCH WITH EXHAUST FAN EF-2.
8. 72" X 84" COMBINATION LOUVER, ALUMINUM RUSKIN ELC445D. PROVIDE WITH ACTUATOR. INTERLOCK ACTUATOR WITH EF-2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
9. REFERENCE ARCH. DRAWINGS FOR LOCATION.
10. 78" X 78" RUSKIN #ELF-811S LOUVER. LOUVER COLOR BY ARCHITECT.
11. DROP 18" X 12" DUCT DOWN THROUGH FLOOR.
12. THERMOSTAT TO CONTROL F-1.
13. 18" X 12" DUCT UP THROUGH MEZZANINE FLOOR.
14. MECHANICAL CONTRACTOR SHALL COORDINATE ANY/ALL CHANGES TO SUPPLIED EQUIPMENT ELECTRICAL WITH ELECTRICAL CONTRACTOR.
15. 16" X 16" RETURN DOWN THROUGH FLOOR.
16. 16" X 16" RETURN DUCT UP THROUGH MEZZANINE FLOOR.
17. INTERLOCK DAMPER MOTOR WITH F-1.
18. 16" X 16" O.S.A. LOUVER. RUSKIN #ELF811DD. PROVIDE INSECT SCREEN AND BALANCING DAMPER. SET DAMPER TO 200 CFM.
19. MOUNT CONDENSING UNIT ON CONCRETE PAD.
20. REFRIGERATION LINE SIZES ARE FOR BIDDING PURPOSES ONLY. PROVIDE REFRIGERATION LINE SETS PER MANUFACTURER'S RECOMMENDATIONS.
21. EXHAUST FAN WALL CAP. REFER TO SCHEDULE.
22. MOUNT TRANSFER GRILLE ABOVE DOOR WITH CHANNEL BOARDER ON BOTH SIDES OF THE WALL.
23. MANUAL OVERRIDE SWITCH LOCATION FOR EF-2. SEE ELECTRICAL DRAWINGS

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PROFESSIONAL SEAL

PROFESSIONAL ENGINEER ALAN D. SPENDLOVE 166911 STATE OF UTAH 1/14/07

ISSUE

MARK	DATE	DESCRIPTION
1	1/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

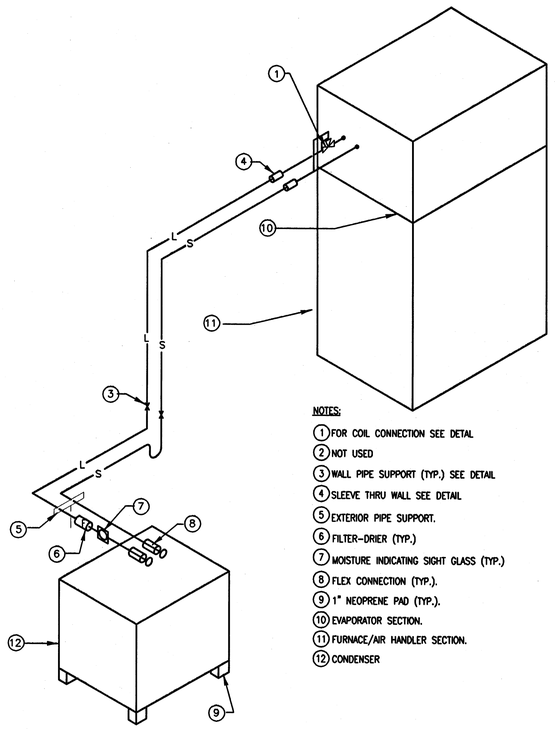
DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
PVE PROJECT NO:	06196.00.01
DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

MECHANICAL FLOOR PLAN

M201

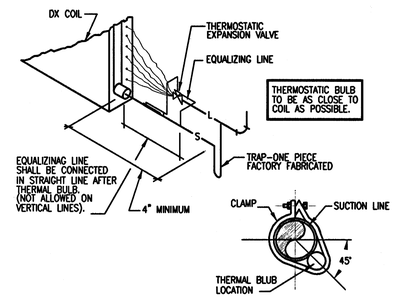


NOTES:

1. FOR COIL CONNECTION SEE DETAL
2. NOT USED
3. WALL PIPE SUPPORT (TYP.) SEE DETAIL
4. SLEEVE THRU WALL SEE DETAIL
5. EXTERIOR PIPE SUPPORT.
6. FILTER-DRIER (TYP.)
7. MOISTURE INDICATING SIGHT GLASS (TYP.)
8. FLEX CONNECTION (TYP.).
9. 1" NEOPRENE PAD (TYP.).
10. EVAPORATOR SECTION.
11. FURNACE/AIR HANDLER SECTION.
12. CONDENSER

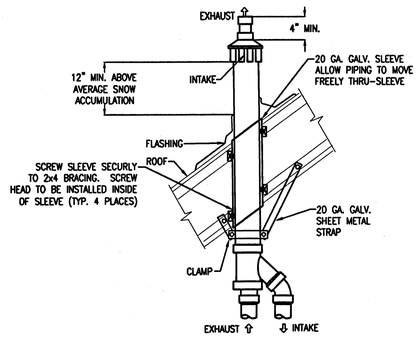
1 M601 RERIGERANT PIPING SCHEMATIC DETAIL

NO SCALE



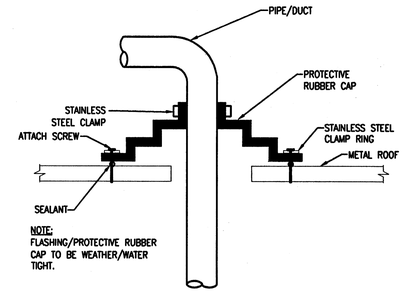
2 M601 REFRIGERANT COIL CONNECTION DETAIL

NO SCALE



3 M601 CONCENTRIC ROOF TEMINATION DETAIL

NO SCALE

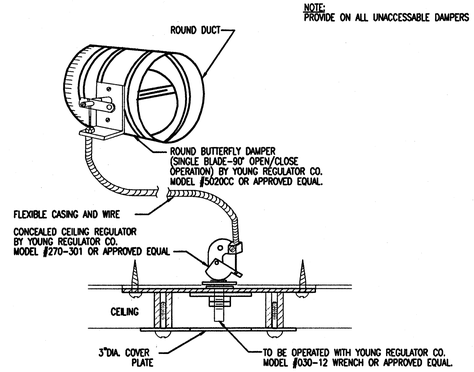


NOTE:
FLASHING/PROTECTIVE RUBBER CAP TO BE WEATHER/WATER TIGHT.

4 M601 METAL ROOF PENETRATION DETAIL

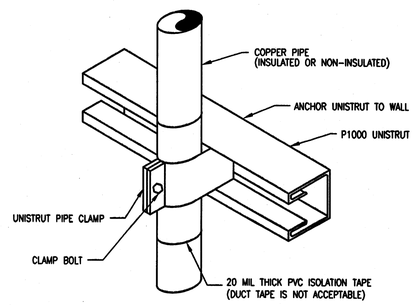
NO SCALE

NOTE:
PROVIDE ON ALL UNACCESSABLE DAMPERS



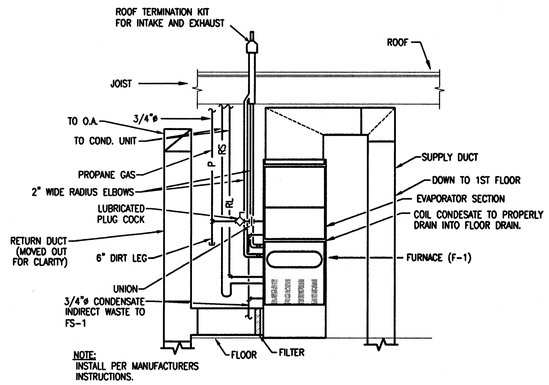
5 M601 DAMPER AND REGULATOR DETAIL

NO SCALE



6 M601 PIPE SUPPORT DETAIL

NO SCALE



NOTE:
INSTALL PER MANUFACTURERS INSTRUCTIONS.

7 M601 90% EFFICIENT FURNACE DETAIL

NO SCALE

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — ALAN D. SPENDLOVE — 156978 — STATE OF UTAH

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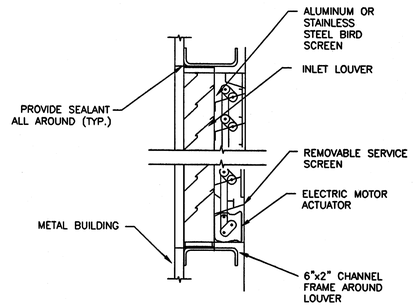
KEY PLAN

SHEET TITLE

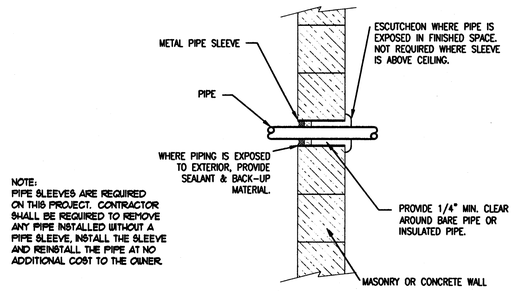
MECHANICAL
DETAIL SHEET

M601



1 M602 — OUTLET / INLET LOUVER DETAIL

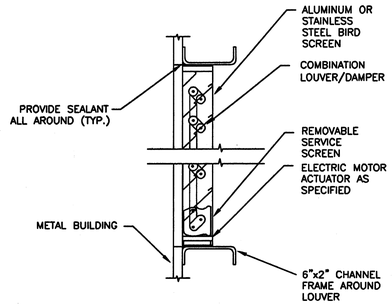
NO SCALE



NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.

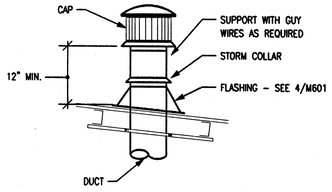
2 M602 — PIPE THRU WALL ABOVE GRADE

NO SCALE



3 M602 — COMBINATION LOUVER/DAMPER DETAIL

NO SCALE



4 M602 — INTAKE VENT PIPE DETAIL

NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING ① AT JOINTS: MIN. R, IN.	DRIVE SLIP / PLAIN S SLIP: RECOMMENDED GAGE	HEMMED S SLIP: RECOMMENDED GAGE	ALTERNATE BAR SLIP: RECOMMENDED GAGE	REINFOR. BAR SLIP: RECOMMENDED GAGE	BAR SLIP: RECOMMENDED GAGE	ANGLE SLIP: REINFORCED ANGLE SIZE	STAND. SEAM: REINFORCED ANGLE SIZE	POCKET LOCK: RECOMMENDED GAGE	POCKET LOCK: REINFORCED ANGLE SIZE
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
13 – 18	24	NONE REQ.	1	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
19 – 30	24	1X1X1/8 @ 60"	1	–	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
31 – 42	22	1X1X1/8 @ 60"	1	–	–	22	22	22	NOT REQ.	NOT REQ.	22	NOT REQ.
43 – 54	22	1.5X1.5X1/8@60"	1 1/2	–	–	22	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
55 – 60	20	1.5X1.5X1/8@60"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
61 – 84	20	1.5X1.5X1/8@30"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	1.5X1.5X1/8	22	1.5X1.5X1/8

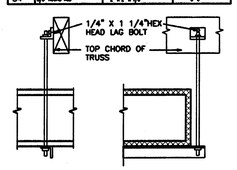
① TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

5 M602 — DUCT CONSTRUCTION DETAIL

NO SCALE

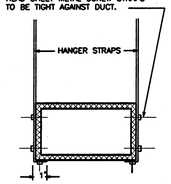
HANGER SIZES FOR RECTANGULAR DUCT

MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	7/8" GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	8'-0"
60"	5/8" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	5/8" ROUND ROD	2" X 2" X 1/8"	8'-0"



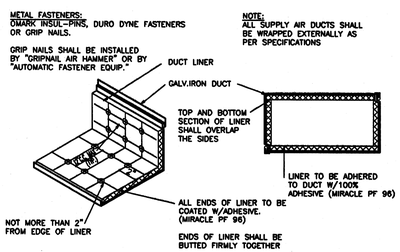
NO POP RIVETS ALLOWED

SELF TAPPING CADMIUM PLATED HEX HEAD SHEET METAL SCREW STRAPS TO BE TIGHT AGAINST DUCT.



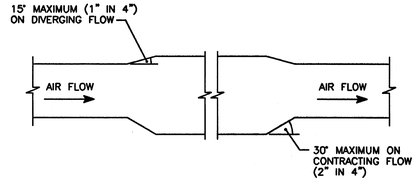
6 M602 — DUCT STRAP HANGER DETAIL

NO SCALE



7 M602 — DUCT LINER DETAIL

NO SCALE



NOTE:
THE 15° MAXIMUM TRANSITION ANGLE NOTED ON THIS DETAIL IS MORE RESTRICTIVE THAN THE SMACNA ALLOWANCE OF 20°.

8 M602 — CONVERGING AND DIVERGING TRANSITIONS

NO SCALE

File name: M:\PROJECTS\2005\05152.00\DRAWINGS\M602.DWG Last edited: 12/12/2005 @ 10:05

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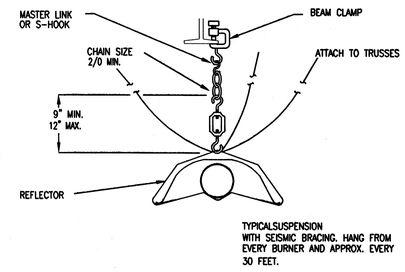
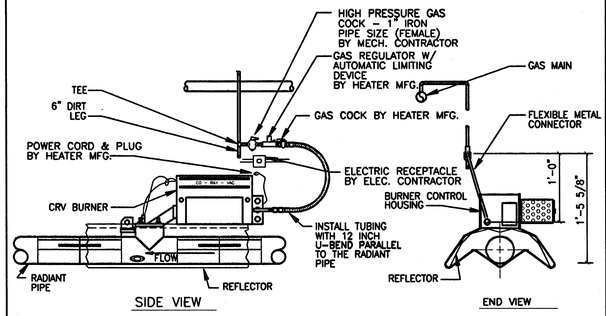


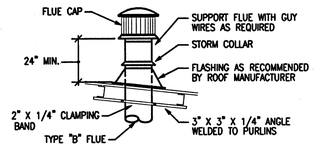
1 M603 RADIANT HEATING SEISMIC DETAIL

NO SCALE



2 M603 GAS CONNECTION TO CRV BURNER DETAIL

NO SCALE



3 M603 FLUE CAP DETAIL

NO SCALE

File name: W:\PROJECTS\2005\05152.00\DRAWINGS\M603.DWG Last edited: 12/12/2005 @ 10:05

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MECHANICAL
DETAIL SHEET

M603

PIPING LEGEND
(NOT ALL USED)

GATE VALVE		CHILLED WATER SUPPLY	CHS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CHR
BALL VALVE		CONDENSER WATER SUPPLY	CWS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CWR
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH	F	ROOF DRAIN PIPING	RD
AQUASTAT	A	OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	G
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C

GENERAL NOTES:

1. COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
2. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
3. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
4. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
5. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
6. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
7. NOT USED
8. ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
9. PROVIDE INSULATION FOR THE FOLLOWING:
   a. DOMESTIC HOT WATER PIPING: 1" THICK FOR ALL PIPE SIZES.
   b. DOMESTIC COLD WATER PIPING: ½" THICK FOR PIPE SIZES ½" TO 6". (PROVIDE CONTINUOUS VAPOR BARRIER.)
10. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
11. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
12. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
13. DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANCIAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	CONNECTION SIZE C.W.	H.W.	WASTE	VENT	TRAP	COMMENTS
WC-1	WATER CLOSET	1/2"	-	4"	2"	INT.	FLOOR MOUNTED TANK TYPE, CRANE - HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEAT - PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"X21". FAUCET AND DRAIN - SYMMONS S-6080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.
S-1	UTILITY SINK	1/2"	1/2"	3"	1-1/2"	3"	ELKAY ESSW 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK173 CAST IRON P-TRAP.
U-1	URINAL	3/4"	-	2"	1-1/2"	INT.	WALL MOUNTED URINAL CRANE #7197, 1.0 GPF. VITEROUS CHINA, MOUNT 17" A.F.F. TO MEET ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.
HB-1	HOSE BIBB	3/4"	-	-	-	-	SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE. (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E27 VACUUM BREAKER
WH-1	WALL HYDRANT	3/4"	-	-	-	-	WADE W8600,175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.
FD-1	FLOOR DRAIN	-	-	3"	1-1/2"	2"	FLOOR DRAIN J.R. SMITH #2005-A. WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.
FD-2	FLOOR DRAIN	-	-	4"	2"	4"	SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.
ES-1	EMERGENCY EYEWASH & SHOWER	1-1/4"	-	-	-	-	BRADLEY S19-310SBFW, FLOOR MOUNTED SAFETY STATION COMBINATION EYEWASH AND EMERGENCY SHOWER. ALUMINUM FLOOR FLANGE AND GALVANIZED INTERMEDIATE PIPE AND FITTINGS, TWO SOFT STREAM OUTLET HEADS, STAINLESS STEEL BOWL AND STAY OPEN TYPE VALVE ON EYEWASH, ORANGE CYCOLAC PLASTIC SHOWER HEAD WITH STAY OPEN VALVE (OPERATED BY PULL ROD AND HANDLE), 1-1/4" IPS FEMALE INLET AND OUTLET.
S-2	DOUBLE COMPARTMENT SINK	1/2"	1/2"	2"	1-1/2"	2"	JUST #DL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"X33" OD WITH TWO COMPARTMENTS THAT ARE 16"X14"X8" DEEP, MATERIAL - 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN - GOOSENECK WITH SPRAY. JUST JNF-201 WITH TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.
FS-1	FLOOR SINK	-	-	2"	1-1/2"	2"	FLOOR SINK J.R. SMITH #3020. COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER
TP-1	TRAP PRIMER	1/2"	-	-	-	-	TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB MI-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.
DF-1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	2"	ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECKSSEL, 115 VOLTS, 400 WATTS, 4.8 AMPS, ELKAY #ESRWC-13.
TD-1	TRENCH DRAIN	-	-	3"	2"	3"	TRENCH DRAIN J.R. SMITH #9931, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C STAINLESS STEEL SLOTTED GRATE, FULLY SLOPED CHANNELS.
TMV-1	TEMPERATURE MIXING VALVE	1/2"	1/2"	-	-	-	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. BRADLEY #S19-2100 COMPLETE WITH CHROME PLATED FINISH, STAINLESS STEEL SURFACE MOUNTED BOX, INTEGRAL STRAINER CHECK STOPS ON INLET BUILT IN COLD WATER BYPASS, HOT WATER SHUT OFF WHEN COLD SUPPLY IS LOST, OUTLET TEMPERATURE GAUGE. 25 GPM @ 15 PSI PRESSURE DROP. SET TEMPERATURE TO 85°.

GAS FIRED WATER HEATER SCHEDULE

SYMBOL	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
WH-1	AMERICAN WATER HEATER #PBG102-34S100-2NV	HOT WATER	34	NATURAL	100,000	126	22"	40°/140°	2"	①②③④

① PROVIDE WITH EXPANSION TANK. A.O. SMITH-AMTROL ST-5-2 GAL. 8"ø x12"H ② 94% EFFICIENCY ③ CONCENTRIC VENT KIT
④ INSTALL PER MANUFACTURERS REQUIREMENTS

AIR COMPRESSOR AC-

PLAN CODE	DUTY	ACFM @ 175 PSI	RECEIVER CAP. (GAL)	ELECTRICAL VOLT/PH	ELECTRICAL HP	MANUFACTURER & MODEL NO
AC-1	SHOP AIR	24	80V	208/3	7.5	SPEEDAIRE WW GRAINGER #5F565

* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

CIRCULATION PUMP SCHEDULE CP-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P.	MOTOR VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	COMMENTS
CP-1	DOMESTIC HOT WATER RECIRCULATION	1	4	3250	1/40	115	TACO #003PNP	SEE HOT WATER HEATER DETAIL FOR INSTALLATION REQ.

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — ALAN D. SPENDLOVE 166917 — STATE OF UTAH — 10/30/06
NOT VALID UNLESS SIGNED

ISSUE

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	9/28/06	95% DESIGN REVIEW

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PVE PROJECT NO:	06196.00.01
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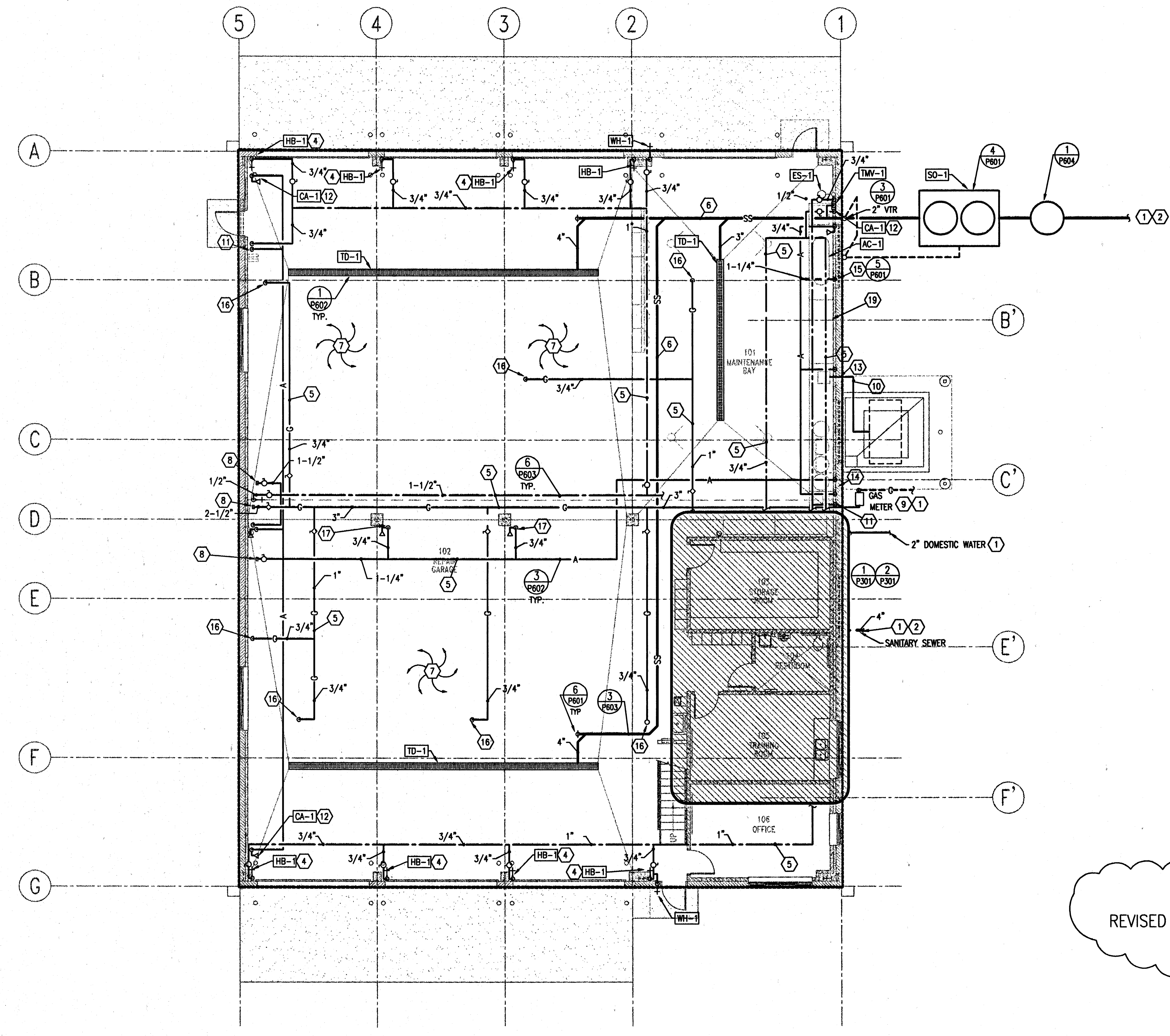
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

PLUMBING
SCHEDULE SHEET

P001



PLUMBING FLOOR PLAN (1/P201)

SCALE:1/8" = 1' – 0" 6' 0 4' 8' 12' 16'

REVISED FLOOR PLAN △1

KEYED NOTES:

1. SEE SITE DRAWINGS FOR CONTINUATION.
2. SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
3. VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR AND THEN CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
4. PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
5. ROUTE PIPING ABOVE STRUCTURE.
6. ALL WASTE PIPING 3" AND GREATER TO SLOPE ⅛" PER FOOT.
7. PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. CAP LINE FOR FUTURE EXPANSION.
9. 1140 CF/HR OF 2 PSI NATURAL GAS WITH A SG. 0.60 AND A HEAT CONTENT OF 880 BTU/CF. PROVIDE APPLIANCE REGULATOR AT EACH APPLIANCE TO REDUCE GAS PRESSURE FROM 2 PSI TO 4 OZ.
10. CONNECT OIL DRAIN LINE TO DRAIN PUMP. RUN DRAIN LINE OUT TO CATCH TANK. PROVIDE SHUT-OFF VALVE AND UNION. CATCH TANK FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. DRAIN PUMP BY CONTRACTOR. VERIFY LOCATION.
11. CONNECT 1" COMPRESSED AIR LINE AND ¾" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
12. ¾" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
13. DROP ¾" COMPRESSED AIR DOWN TO OIL DRAIN PUMP. PROVIDE SHUT-OFF VALVE.
14. DROP 1" COMPRESSED AIR LINE TO LUBE BARRELS. PROVIDE SHUT-OFF VALVE. LUBE BARRELS BY OWNER, INSTALLED BY CONTRACTOR.
15. AIR COMPRESSOR BY CONTRACTOR. CONNECT 1-¼" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
16. GAS LINE DOWN TO BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR REFERENCE DETAIL 2/M603.
17. DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
18. CONNECT TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND INVERTED ELEVATION TO PROVIDE PROPER FLOW TO NEW SEPTIC DRAIN FIELD.
19. 7 EACH TOTAL HOSE REELS FOR GREASE, OIL AND LUBE.

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PROFESSIONAL SEAL

PROFESSIONAL ENGINEER ALAN D. SPENDLOVE 166… STATE OF UTAH 1/18/07

ISSUE

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△1	1/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

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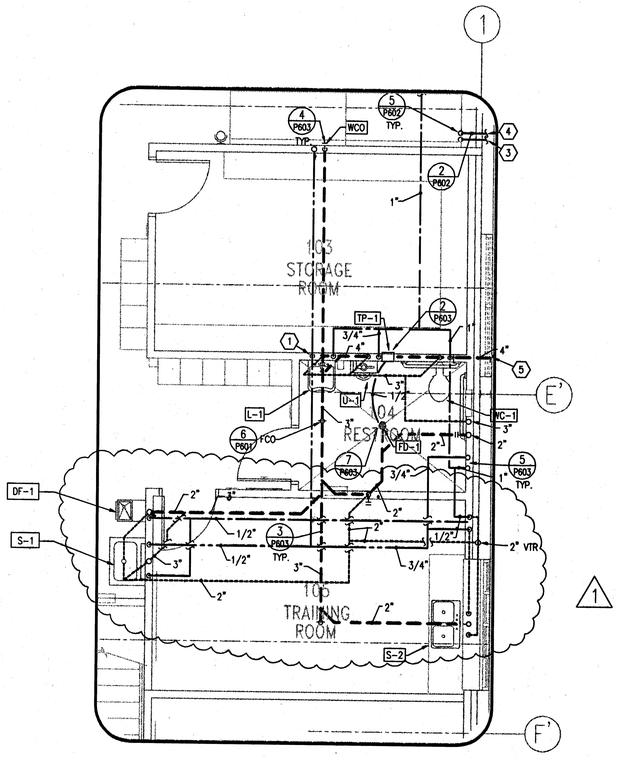
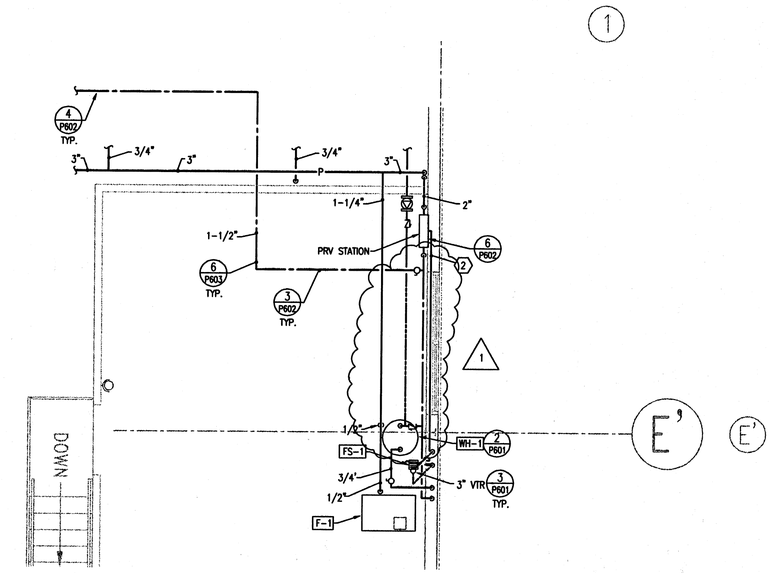
KEY PLAN

SHEET TITLE

PLUMBING FLOOR PLAN

P201





KEYED NOTES:

1. 1/2" HOT WATER DOWN TO L-1
2. 3/4" DRAIN LINE. AIR GAP TO FS-1
3. 2" WATER LINE.
4. 3" NATURAL GAS.
5. SEE SITE PLAN FOR CONTINUATION.

1 P301 PLUMBING ENLARGEMENT
SCALE:1/4" = 1' - 0" 6' 0 4' 8' 12' 16'

2 P301 MEZZANINE PLUMBING PLAN
SCALE:1/4" = 1' - 0" 6' 0 4' 8' 12' 16'

REVISED FLOOR PLAN
1

File name: M:\PROJECTS\2005\05152.00\DRAWINGS\P-301.DWG Last edited: 03/30/2006 @ 09:27

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ALAN D. SPENDLOVE 166911 PROFESSIONAL ENGINEER STATE OF UTAH
1/18/07

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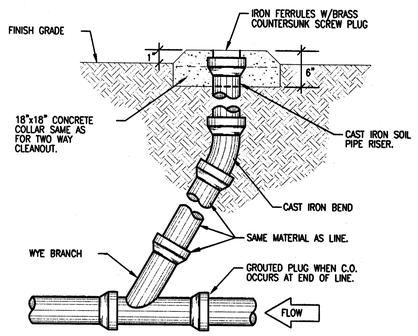
KEY PLAN

SHEET TITLE

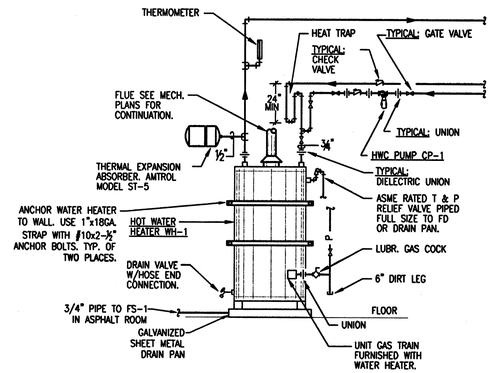
PLUMBING ENLARGEMENTS

P301



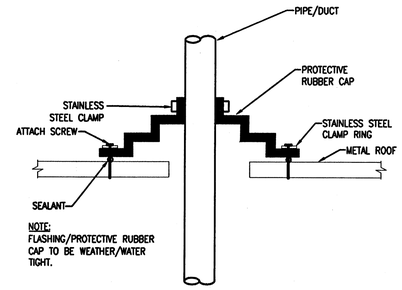
1 P601 **EXTERIOR CLEANOUT DETAIL**

NO SCALE



2 P601 **GAS FIRED WATER HEATER**

NO SCALE



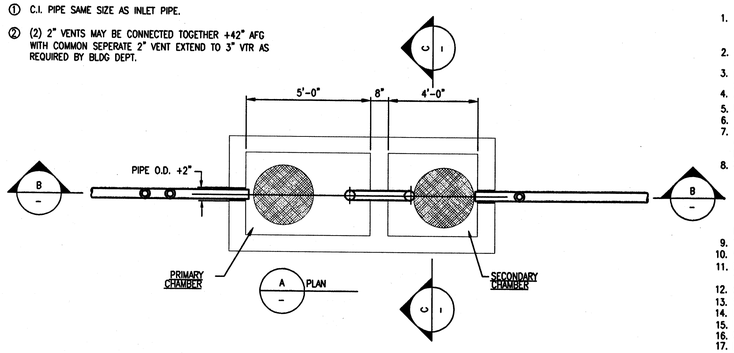
3 P601 **METAL ROOF PENETRATION DETAIL**

NO SCALE

KEYED NOTES:

① C.I. PIPE SAME SIZE AS INLET PIPE.

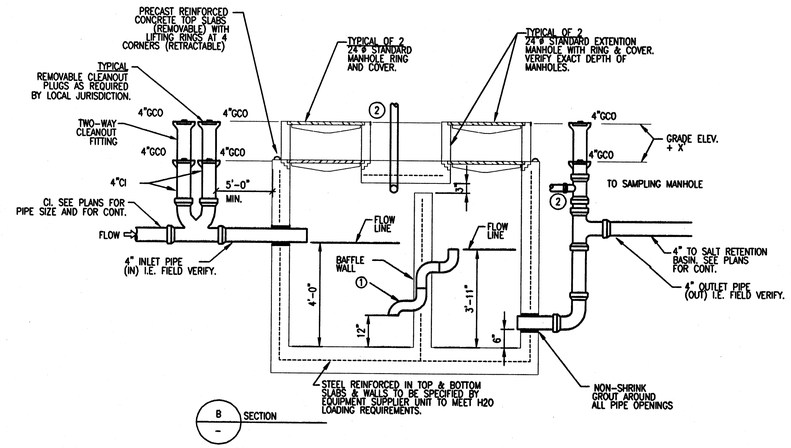
② (2) 2" VENTS MAY BE CONNECTED TOGETHER +42" AFG WITH COMMON SEPERATE 2" VENT EXTEND TO 3" VTR AS REQUIRED BY BLDG DEPT.



NOTES:

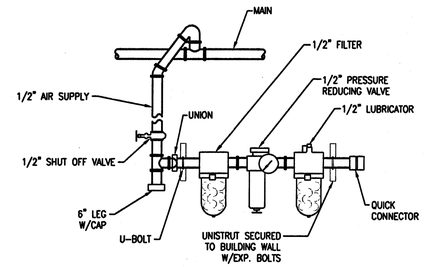
1. PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SOUTH VALLEY WATER RECLAMATION DISTRICT (SVWRF) PRIOR TO BACKFILLING IS REQUIRED.
2. INTERCEPTOR PIPING AND OTHER ASSOCIATED PIPING CHANGES THAT ARE NECESSARY TO INSTALL INTERCEPTOR MUST BE IN ACCORDANCE WITH LOCAL REGULATIONS.
3. INTERCEPTOR MUST BE PROPERLY VENTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE STANDARDS.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
5. REINFORCEMENT STEEL SHALL BE ASTEM A605 GRADE 60.
6. THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-½".
7. THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH. THE DESIGNED SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT PRIOR TO INSTALLATION.
8. THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA.
   A. WALL DESIGN FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 90 PCF PLUS TRUCK SURCHARGES.
   B. TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.

   MANWAY FRAME & COVER SHALL BE A TRAFFIC TYPE CASTING FOR H-20 TRUCK LOAD.
9. THE INLET PIPE SHALL BE AT AN ELEVATION 1" HIGHER THAN THE OUTLET PIPE.
10. WHERE THE SEWER LINE ALREADY EXIST, THE SEWER INVER INTO AND OUT OF THE INTERCEPTOR SHALL BE 4'-0" ABOVE THE INTERCEPTOR FLOOR.
    THE BAFFLE IN THE INTERCEPTOR SHALL BE WITHIN 3" OF THE CEILING OF THE INTERCEPTOR.
11. COVERS SHALL BE CIRCULAR AND BE SOLID.
12. SANITARY WASTE FROM TOILETS MUST NOT BE PLUMBED THROUGH THE INTERCEPTOR.
13. INTERCEPTOR MUST BE LOCATED IN SUCH A MANNER THAT IT IS READILY ACCESSIBLE FOR CLEANING.
14. FIELD VERIFY INVERT ELEVATIONS OF INLET AND OUTLET PIPING PRIOR TO INSTALLING INTERCEPTOR.
15. CONTRACTOR SHALL OBTAIN OFFICIAL LOCAL JURISDICTION WATER RECLAMATION DISTRICT INTERCEPTOR
16. DESIGN AND INSTALL PER THEIR REQUIREMENTS.



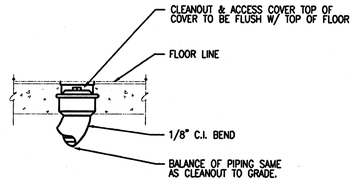
4 P601 **1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT**

NO SCALE



5 P601 **COMPRESSED AIR OUTLET CONNECTION DETAIL**

NO SCALE



6 P601 **FLOOR CLEANOUT**

NO SCALE

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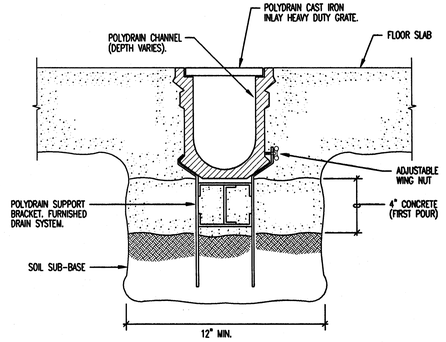
KEY PLAN

SHEET TITLE

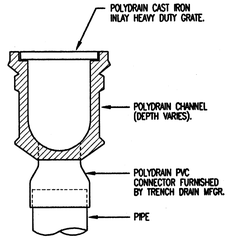
PLUMBING DETAIL SHEET

P601



TRENCH DRAIN INSTALLATION

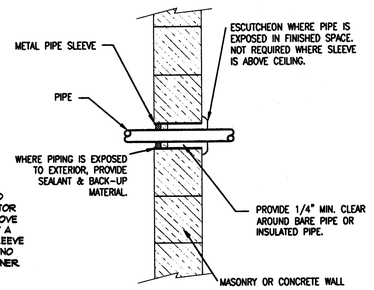
NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR WEATHERPROOF REQUIREMENTS.



TRENCH DRAIN PIPING

1 P602 TYPICAL TRENCH DRAIN DETAIL

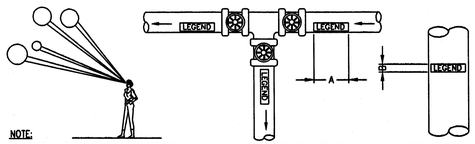
NO SCALE



NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.

2 P602 PIPE THRU WALL ABOVE GRADE

NO SCALE



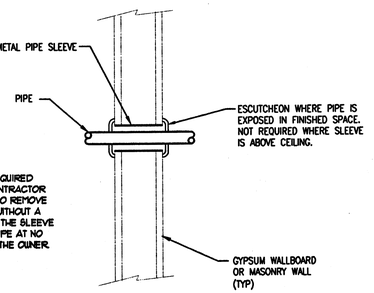
NOTE:
IDENDIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME, ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD A		SIZE OF LETTERS B	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

3 P602 PIPE IDENTIFICATION DETAIL

NO SCALE



NOTE:
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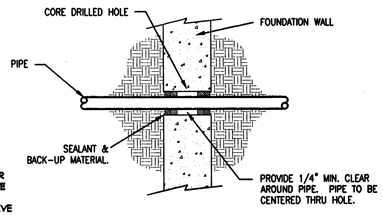
4 P602 PIPING THRU GYPSUM WALL

NO SCALE



NOTE:
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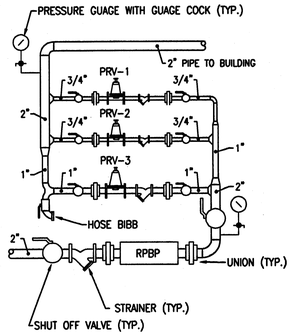
5 P602 PIPE THRU WALL - BELOW GRADE

NO SCALE



PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE SETTING (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	3/4"	10	5	WATTS 223S
PRV-2	3/4"	20	10	WATTS 223S
PRV-3	1"	40	15	WATTS 223S
RPBP	1-1/2"	50	15	WATTS 009

NOTE: COORDINATE REQUIREMENTS OF REDUCE PRESSURE BACKFLOW PREVENTOR WITH LOCAL JURISDICTION.

6 P602 PRV STATION DETAIL

NO SCALE

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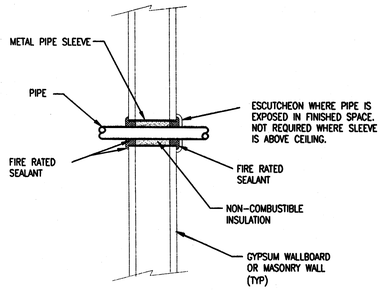
KEY PLAN

SHEET TITLE

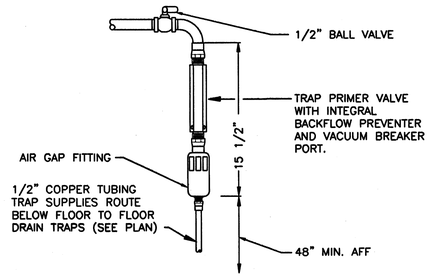
PLUMBING
DETAIL SHEET

P602



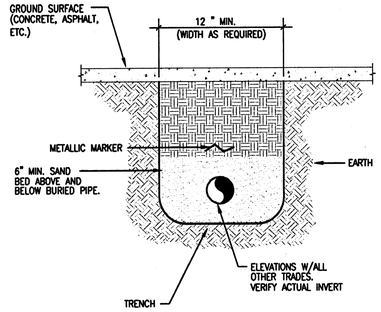
1 P603 PIPING THRU FIRE-RATED WALL

NO SCALE



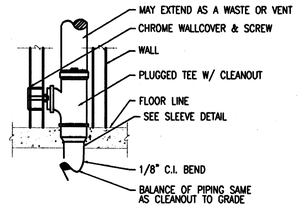
2 P603 TRAP PRIMER DETAIL

NO SCALE



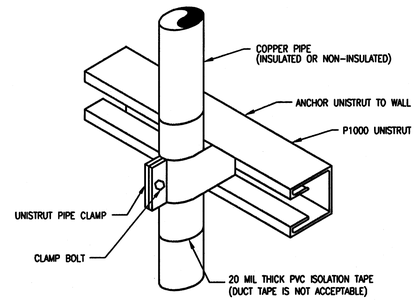
3 P603 BURIED PIPE DETAIL

NO SCALE



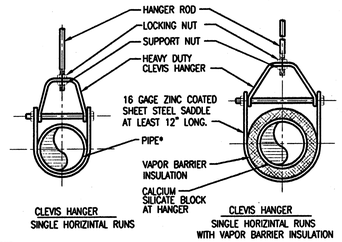
4 P603 WALL CLEANOUT - ALL VERTICAL PIPE

NO SCALE



5 P603 PIPE SUPPORT DETAIL

NO SCALE



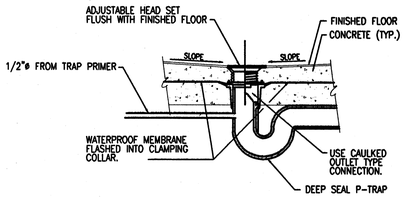
NOTE:

*INSTALL 20 MIL THICK PVC ISOLATION TAPE BETWEEN PIPE AND HANGER FOR DISSIMILAR MATERIAL. WRAP TAPE AROUND PIPE (DUCT TAPE OR ELECTRICIAN TAPE IS NOT ACCEPTABLE)

*PLUMBER'S TAPE IS NOT AN ACCEPTABLE METHOD TO HANG PIPE.

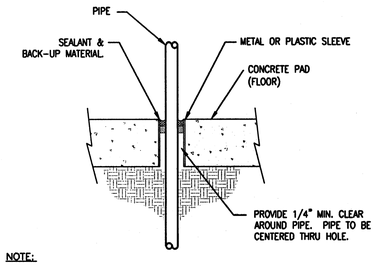
6 P603 PIPE HANGERS DETAIL

NO SCALE



7 P603 FLOOR DRAIN DETAIL

NO SCALE



NOTE:.
ALL PIPES TO BE SLEEVED. THIS INCLUDES WATER, SEWER ETC.

8 P603 PIPING THRU ON GRADE FLOOR

NO SCALE

CLIENT

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10/30/06

NOT VALID UNLESS SIGNED

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
PVE PROJECT NO:	06196.00.01
DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

PLUMBING
DETAIL SHEET

P603

NOTES:

1 PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SANITRAY DISTRICT PRIOR TO BACKFILLING.

2 WIDTH OF TROUGH IN MANHOLE MUST BE SAME SIZE AS THE INLET PIPE INTO MANHOLE. DEPTH OF TROUGH MUST BE THE SAME AS ½ OF INLET PIPE DIAMETER

3 CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

4 REINFORCEMENT STEEL SHALL BE ASTM A615 GRADE 60.

5 THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-½ INCHES.

6 THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.

7 THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA:

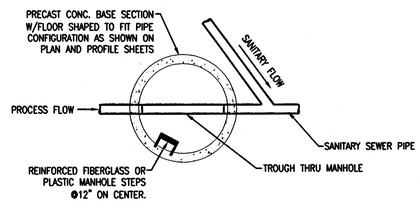
A) WALLS DESIGNED FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 90 PCF PLUS TRUCK SURCHARGES
B) TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.

8 MANHOLES WILL HAVE STAINLESS OR PLASTIC STEPS.

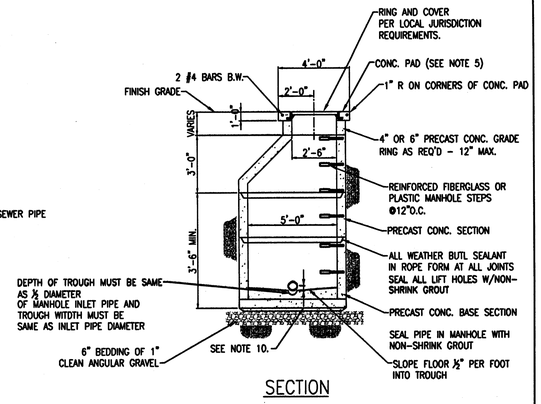
9 ALL MANHOLES MUST HAVE ROUND NOTCHED COVERS WITH PICK HOLE FOR REMOVAL

10 FOR NEW CONSTRUCTION BOTTOM OF INLET PIPE INTO MANHOLE MUST BE AT LEAST 3 INCHES ABOVE THE BOTTOM OF THE TROUGH THRU THE MANHOLE.

NOTE:
SANITARY PIPING FROM TOILETS MUST TIE IN DOWNSTREAM FROM SAMPLING MANHOLE.



PLAN VIEW



SECTION

1 / P604 SAMPLING MANHOLE DETAIL

NO SCALE

CLIENT

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PROFESSIONAL SEAL

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ISSUE

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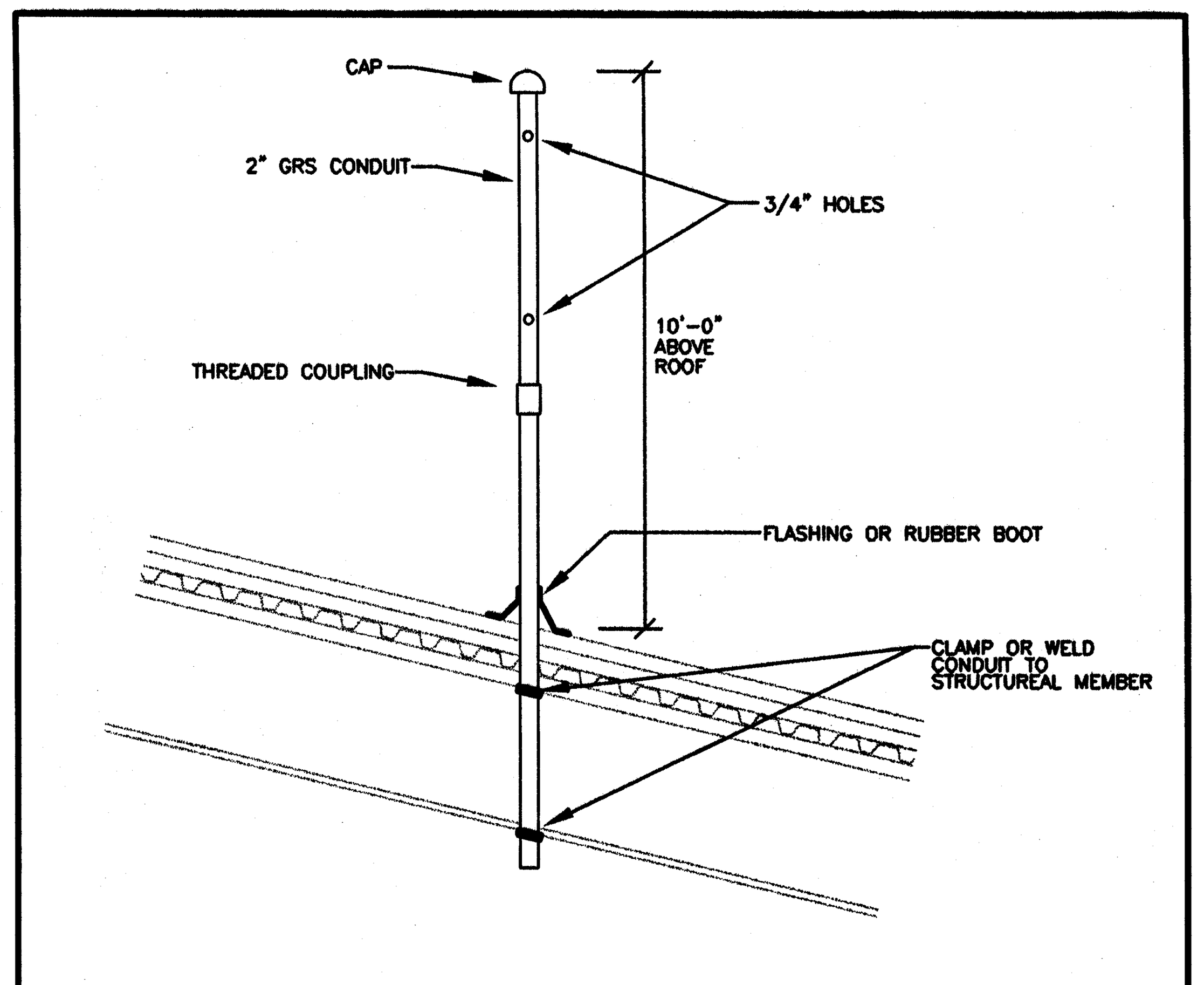
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

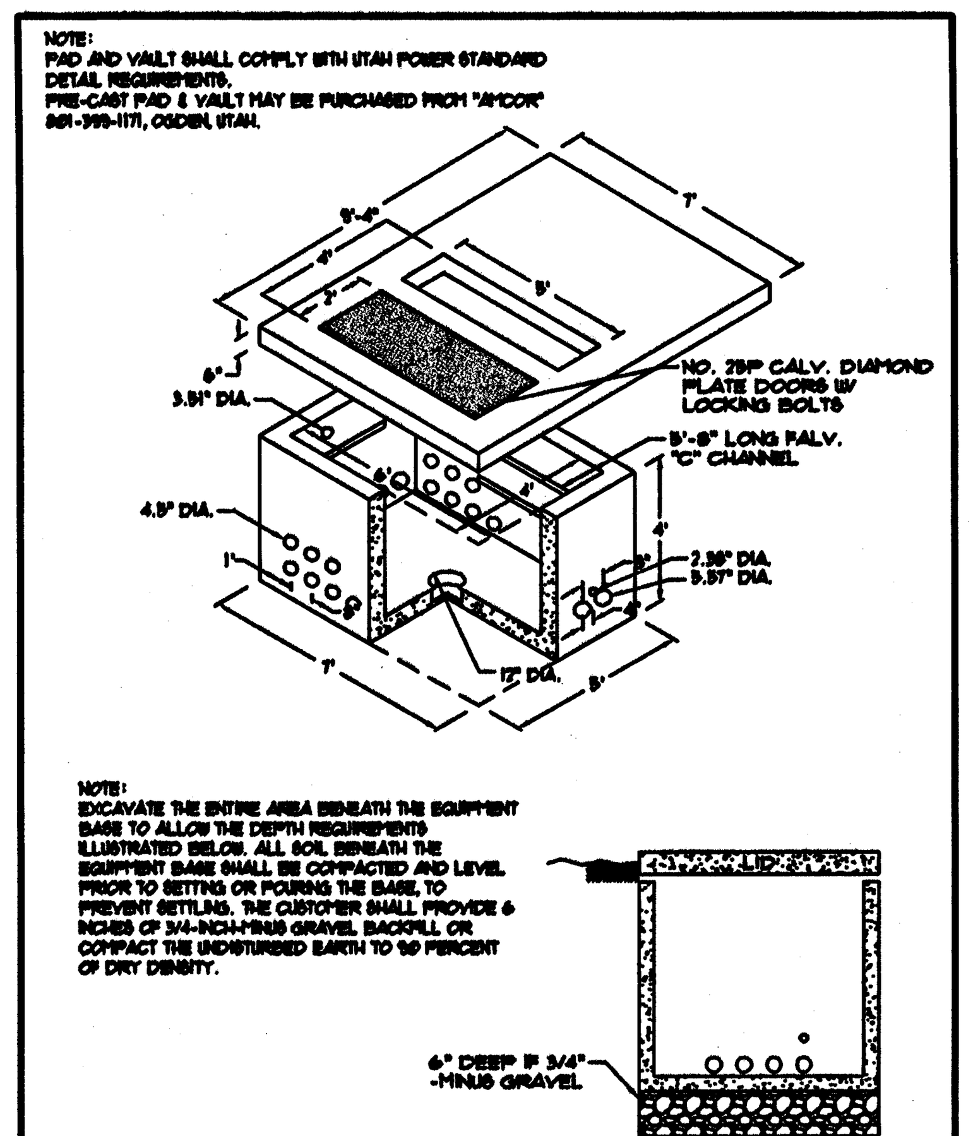
SHEET TITLE

PLUMBING
DETAIL SHEET

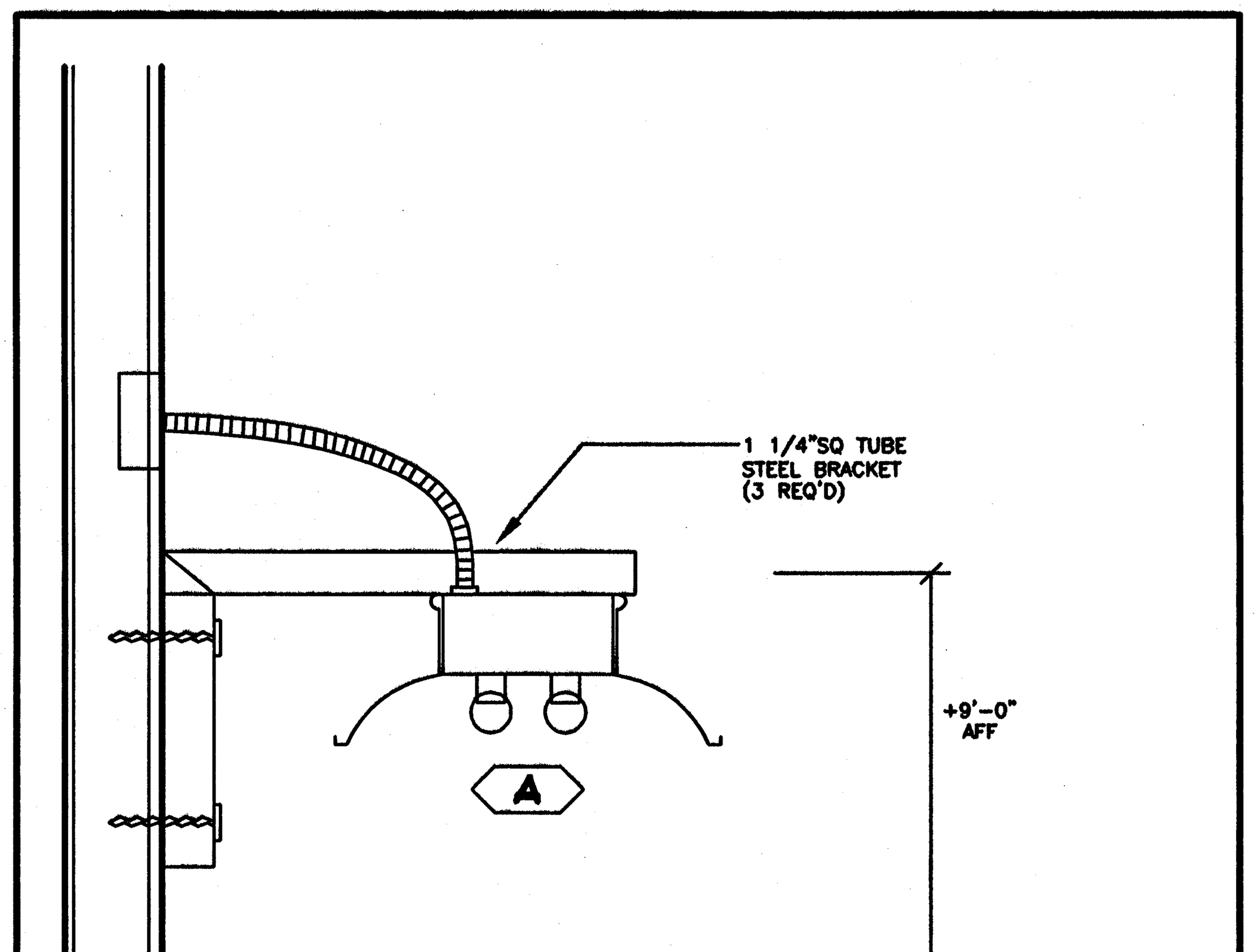
P604



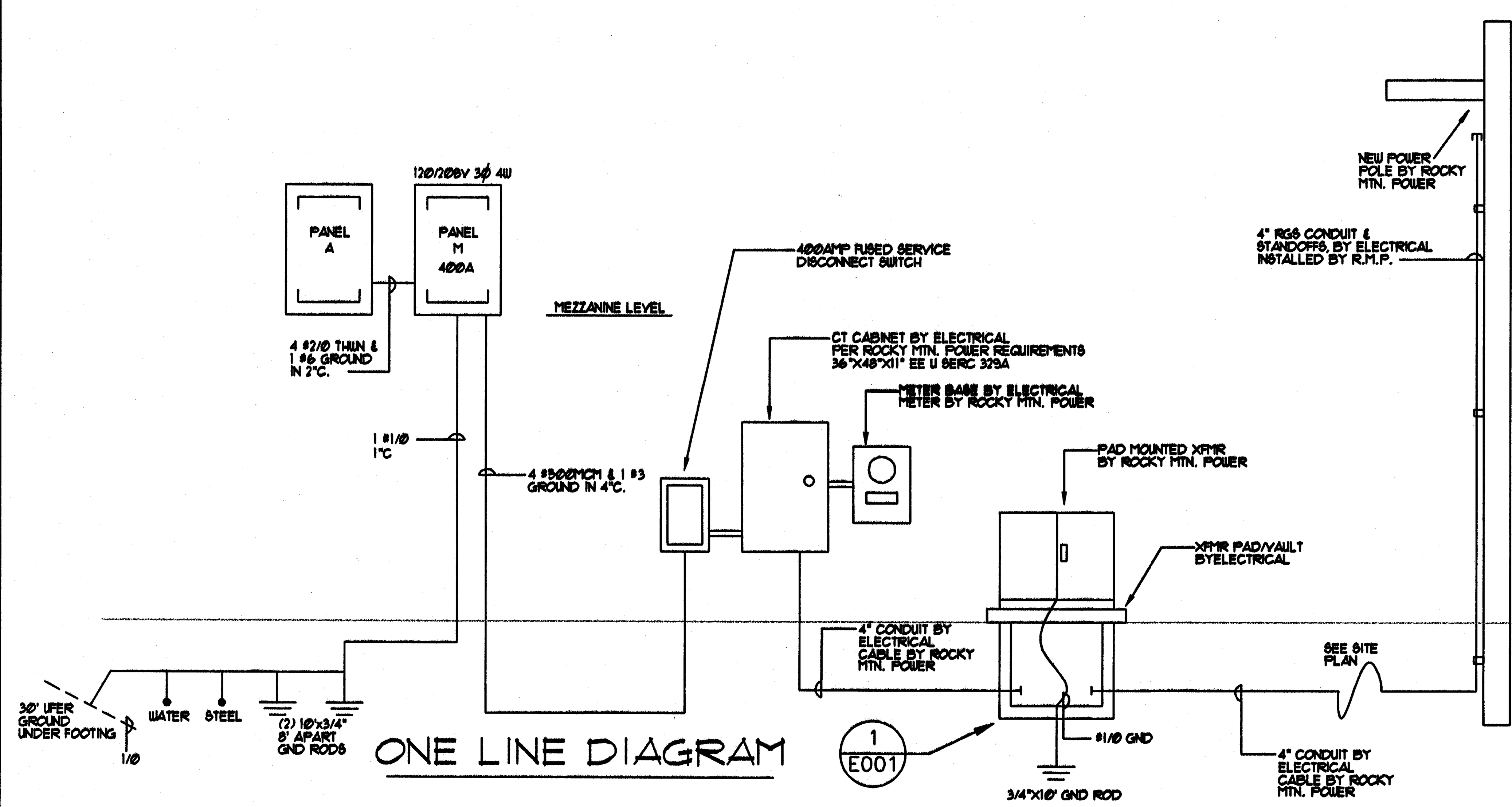
DETAIL 3/E001 WEATHER MAST
NTS



DETAIL 1/E001 TRANSFORMER PAD/VAULT DETAIL
NOT TO SCALE



DETAIL 2/E001 LIGHTING FIXTURE DETAIL
NTS



ONE LINE DIAGRAM 1/E001

GENERAL NOTES

1. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
2. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
4. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
5. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
6. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
7. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
8. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
9. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
10. WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
11. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
12. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
13. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
14. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE REQUIRED CLEARANCES ARE MAINTAINED.
17. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
18. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
19. WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
20. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
21. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
22. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC, REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
23. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.

INDEX OF ELECTRICAL DRAWINGS

ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CEILING LIGHT FIXTURE	CEILING	
	WALL LIGHT FIXTURE	AS NOTED	
	RECESSED DOWNLIGHT FIXTURE	CEILING	
	FLUORESCENT LIGHT FIXTURE	AS NOTED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	
	WALL MOUNTED EXIT LIGHT	AS NOTED	
$	SINGLE POLE SWITCH	+4'-0"	
$	SINGLE POLE SWITCH	+4'-0"	
$3	THREE-WAY SWITCH	+4'-0"	
$4	FOUR-WAY SWITCH	+4'-0"	
$K	KEY OPERATED SWITCH	+4'-0"	
$P	SWITCH WITH PILOT LIGHT	+4'-0"	
	VARIABLE INTENSITY SWITCH	+4'-0"	
	TIMER SWITCH	+4'-0"	
	DUPLEX RECEPTACLE	+16"	
A	DUPLEX RECEPTACLE		
W	ELECTRIC WATER COOLER RECEPTACLE		
WP	WEATHERPROOF RECEPTACLE	+24"	
IG	ISOLATED GROUND RECEPTACLE	+16"	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16"	
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16"	
	FOURPLEX RECEPTACLE	+16"	
E	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16"	
	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	
	DATA OUTLET	+16"	
	TELEPHONE OUTLET	+16"	
	TELEPHONE/DATA OUTLET	+16"	
	TELEPHONE OUTLET	FLOOR	
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
	NON-FUSED DISCONNECT SWITCH	+5'-0"	
F	FUSED DISCONNECT SWITCH	+5'-0"	
$T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
842	ARCHITECTURAL ROOM NUMBER		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURE	CATALOG NUMBER	DESCRIPTION	LAMPS	QTY	FIX WATTS	MTG	VOLTS
A	METALUX	STDIM232-120V-EB82	8' 4-LAMP INDUSTRIAL FLUORESCENT FIXTURE	F32T8 SP35	4	110	PEND.	120
B	METALUX	2FC8-332A-120V EB81	RECESSED FLANGED 2'X4' 3-LAMP FLUORESCENT FIXTURE	F32T8 SP35	3	98	REC.	120
C	METALUX	W8232A-120V EB81	SURFACE MOUNTED FLUORESCENT WRAP AROUND FIXTURE	F32T8 SP35	2	68	SURF.	120
EL	SURELITES	CC7NC8D-SM	EMERGENCY BATTERY PACK	C/W UNIT	2	32	SURF.	120
X1	SURELITES	LPX70DG-WH	LED EXIT SIGN	LED	-	32	UNIV.	120
OA	LUMARK	MHWL250-120V	OUTDOOR 250W METAL HALIDE WALLPACK	250W MH	1	275	SURF.	120
OB	McGRAW EDISON	AMF-Y-400MH-MT-76-BK	OUTDOOR 400W METAL HALIDE FLOOD LIGHT	400W MH	1	460	WALL	120
OC	LUMARK	MHWL100-120V	100W METAL HALIDE FIXTURE	100W	1	110	WALL	120

PANELBOARD SCHEDULE

PANEL 'A' — 120/208 VOLTS — 3 PH — 4 W
MOUNTING: FLUSH / XX SURFACE
RATING: 10,000 — AMP 225 - MLO — LOCATION: MEZZ. 201 — PROJECT: TOOELE MAINT.

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	B	C	RIGHT PHASE LOAD A	B	C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
LIGHTING	20	1	12	1	1200			1000			2	20	1	12	RECEPTACLES
				3		1000			1000		4				
				5			1000			600	6				
				7	1300			600			8				
OUTDOOR LIGHTING				9		1100			400		10				
OUTDOOR LIGHTING				11			1100			1000	12				
DOORS				13	1000			1000			14				
				15		1000			600		16				
				17			1000			600	18				
				19	1000			400			20				
				21		1000			700		22				BURNERS
				23			1000			1300	24	25	1	10	VACUUM PUMP
				25	1000			1500			26	25	1	10	VACUUM PUMP
FLOOD LIGHTS				27		1800			1000		28	20	1	12	RECEPTACLE
FLOOD LIGHTS				29			1800			1000	30				
SPARE				31				600			32				
				33					600		34				
				35						600	36				
				37							38				SPARE
				39							40				
				41							42				
					5700	5900	5900	5100	4300	5300					
				TOTAL	10800	10200	11200								

LOAD TOTAL 32200
FLA 89

PANELBOARD SCHEDULE

PANEL 'M' — 120/208 VOLTS — 3 PH — 4 W
MOUNTING: FLUSH / XX SURFACE
RATING: 22,000 SERVICE RATED — AMP 400 - MLO — LOCATION: MEZZ. 201 — PROJECT: TOOELE MAINT

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	B	C	RIGHT PHASE LOAD A	B	C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
COMPRESSOR	50	3	6	1	2900			10800			2	125	3	1/0	PANEL 'A'
7-1/2 HP-VERIFY	-	-	-	3		2900			10200		4	-	-	-	-
	-	-	-	5			2900			11200	6	-	-	-	-
RECEPTACLES	20	1	12	7	600			2400			8	40	2	8	COND. UNIT
RECEPTACLES	20	1	12	9		600			2400		10	-	-	-	-
SPARE	20	1		11						1500	12	30	1	12	FURNACE
SPARE	20	1		13				900			14	20	3	3	EXH. FAN
SPECIAL OUTLET	60	2	6	15		3500			900		16	-	-	-	EF-2 2HP
-	-	-	-	17			3500			900	18	-	-	-	-
SPECIAL OUTLET	60	2	6	19	3500			2900			20	50	3	6	MOBILE LIFT
-	-	-	-	21		3500			2900		22	-	-	-	-
SPARE	20	1		23						2900	24	-	-	-	-
	20	1		25				2900			26	50	3	6	HOIST
	20	1		27					2900		28	-	-	-	7-1/2HP
	20	1		29						2900	30	-	-	-	-
	20	1		31							32	20	1		SPARE
	20	1		33							34				
	20	1		35							36				
	20	1		37							38				
	20	1		39							40				
	20	1		41							42				
					7000	10500	6400	19900	19300	19400					
				TOTAL	26900	29800	25800								

LOAD TOTAL 82500
FLA 229

CLIENT

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DEAN P. LEVORSEN
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11-3-06

ISSUE

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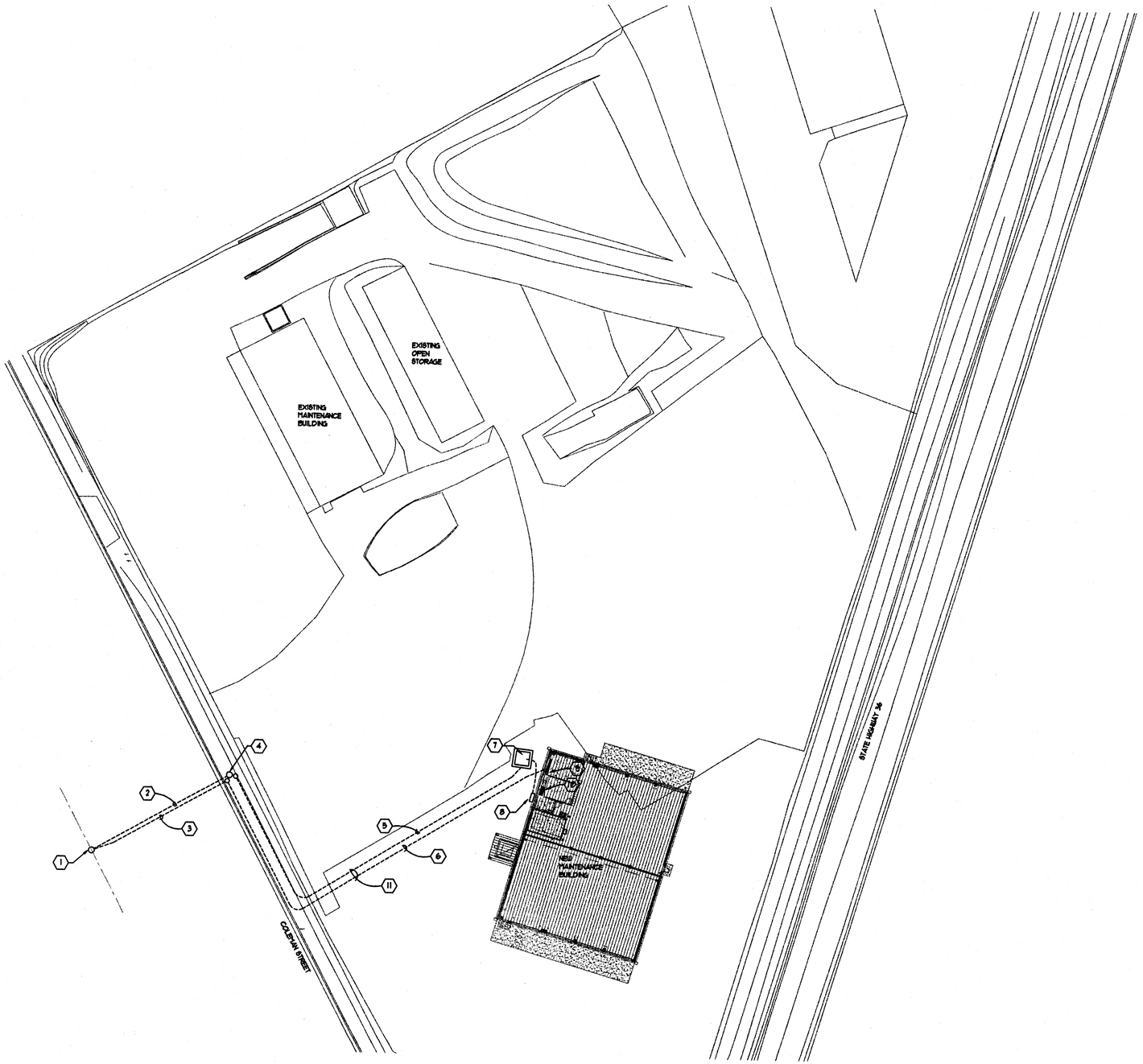
DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

SHEET TITLE

SCHEDULES & GENERAL NOTES

E001



KEYED NOTES:

1. EXISTING POWER POLE WITH TELEPHONE LINES.
2. NEW AERIAL POWER LINES BY ROCKY MOUNTAIN POWER.
3. NEW AERIAL TELEPHONE LINES BY QWEST.
4. NEW POWER POLE BY ROCKY MOUNTAIN POWER.
5. 4" CONDUIT 36" BELOW GRADE BY ELECTRICAL CONTRACTOR FOR TELEPHONE CABLES BY QWEST. SEE ONE LINE DIAGRAM.
6. 3" CONDUIT 24" BELOW GRADE BY ELECTRICAL CONTRACTOR FOR TELEPHONE BY QWEST. SEE ONE LINE DIAGRAM. 3" CONDUIT FOR TELEPHONE CABLES BY QWEST.
7. PAD MOUNTED TRANSFORMER BY ROCKY MOUNTAIN POWER. PAD/VAULT BY ELECTRICAL.
8. METER CABINET & BASE BY ELECTRICAL, SEE ONELINE.
9. TELEPHONE TERMINAL BOARD ON MEZZANINE FLOOR. SEE SHEET E301.
10. PANEL 'M' ON MEZZANINE FLOOR. SEE SHEET E301.
11. COORDINATE ALL LOCATIONS & TRENCHING WITH CIVIL DRAWINGS, GAS & WATE SERVICE ALSO IN THIS AREA.

1/E100 ELECTRICAL SITE PLAN

SCALE: 1" = 30' - 0"

CLIENT

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. LEVORSEN
STATE OF UTAH
11-30-06

ISSUE

MARK	DATE	DESCRIPTION
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

DFCM PROJECT NO:	06033900
ARCHIPLEX PROJECT NO:	0610.01
PVE PROJECT NO:	06196.00.01
DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	
DATE:	OCTOBER 30, 2006

KEY PLAN

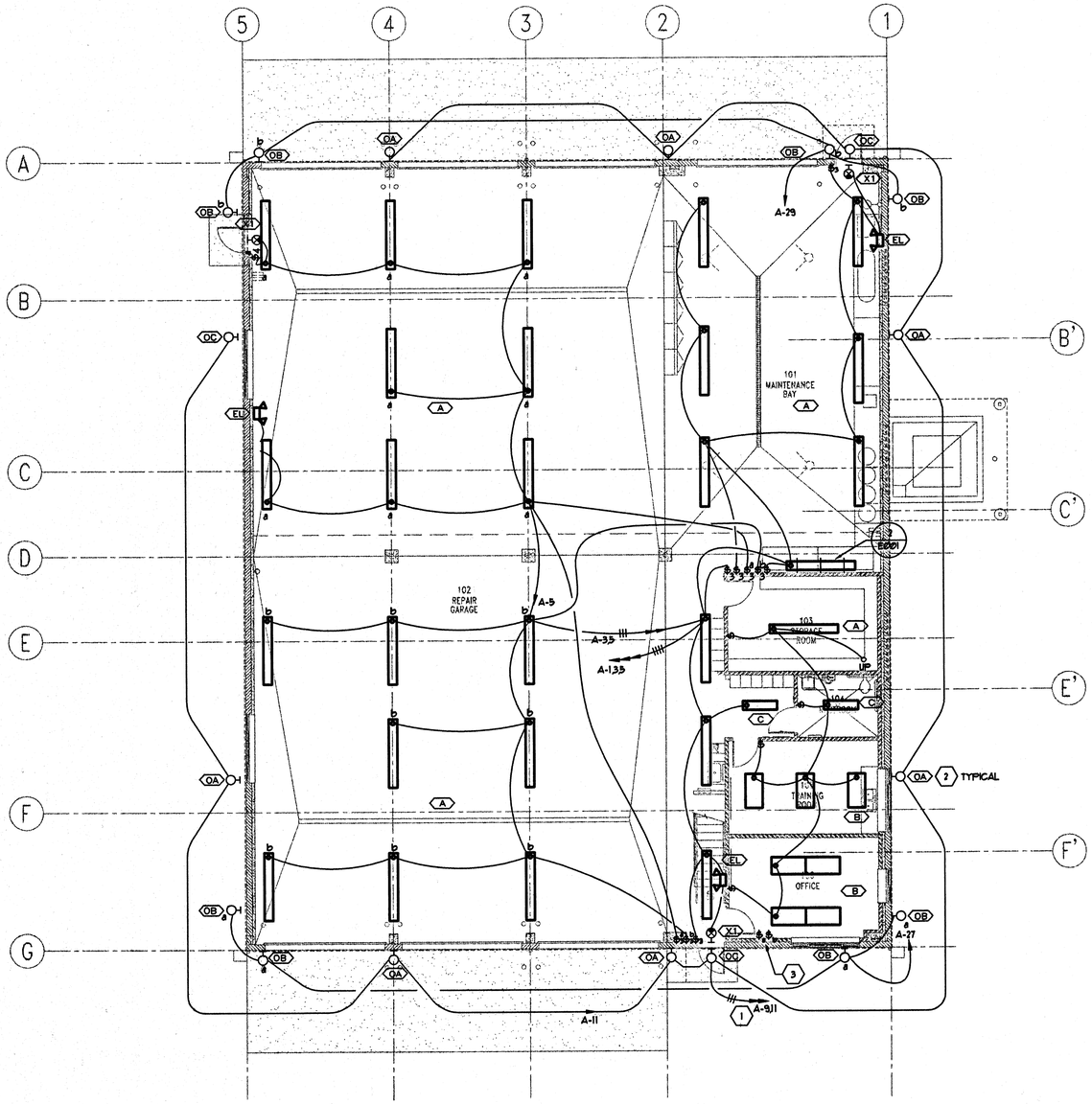
SHEET TITLE

ELECTRICAL SITE PLAN

E100

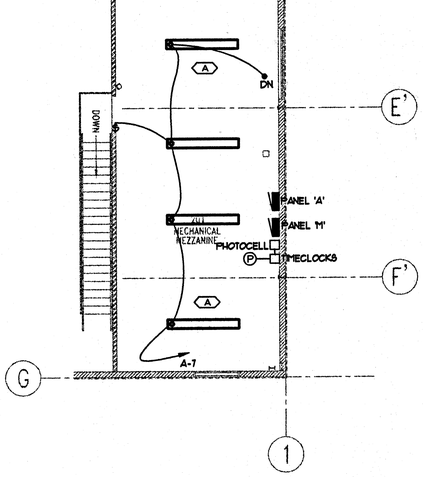
KEYED NOTES:

1. WIRE OUTDOOR LIGHTING CIRCUIT THROUGH TIME CLOCK.
2. SEE ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHTS.
3. SWITCHES FOR FLOOD LIGHTS. LABEL NORTH $a & $b



1 E201 LIGHTING FLOOR PLAN

SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'



2 E201 MEZZANINE FLOOR PLAN (LTG).

SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

PROJ. NORTH

TRUE NORTH

CLIENT

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH
1-22-07

ISSUE

MARK	DATE	DESCRIPTION
1	1/22/07	DFCM REVIEW COMMENTS
	10/30/06	CONSTRUCTION DOCUMENTS
	9/28/06	95% DESIGN REVIEW

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DRAWN BY:	BW
CHECKED BY:	ADS
SCALE:	1/8"=1'-0"
DATE:	OCTOBER 30, 2006

KEY PLAN

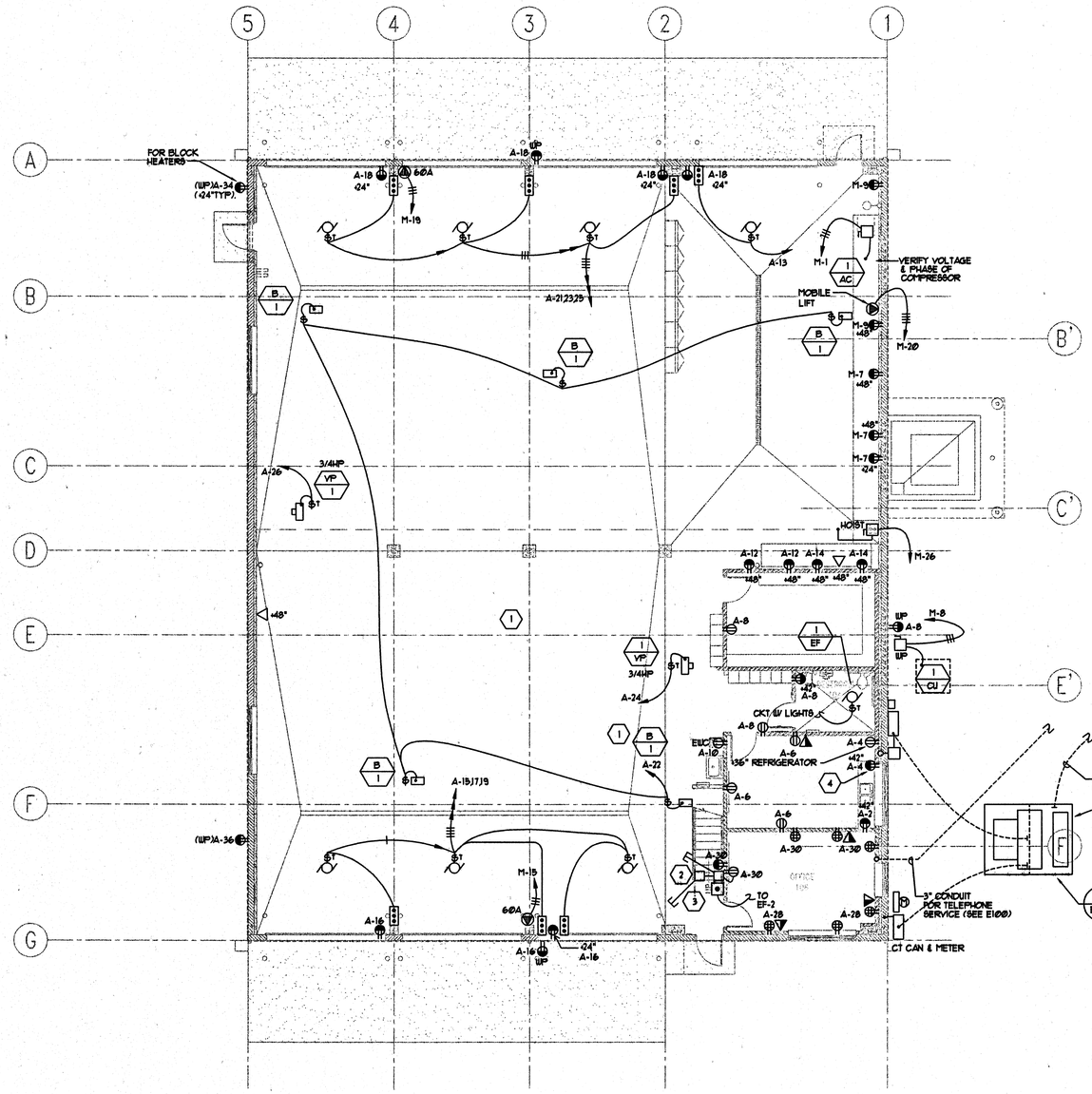
SHEET TITLE

LIGHTING FLOOR PLAN

E201

KEYED NOTES:

1. ALL RECEPTACLES IN VEHICLE STORAGE BAYS AND MAINTENANCE BAY SHALL BE MOUNTED A MINIMUM OF 24" A.F.F. AND BE A GFCI TYPE RECEPTACLE.
2. RADIANT HEATING CONTROLS BY MECHANICAL. RUN 3/4" CONDUIT TO STRUCTURE FOR WIRING BY MECHANICAL CONTRACTOR.
3. PUSH BUTTON CONTROL TO EXHAUST FAN EF-2. COORDINATE WITH CARBON MONOXIDE EXHAUST SYSTEM CONTROLS.
4. MOUNT RECEPTACLE HORIZONTAL IN BACK SPLASH.
5. 2" GRS WEATHER MAST 10'-0" ABOVE ROOF SEE DETAIL.



1 E301 POWER FLOOR PLAN
SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

2 E301 MEZZANINE FLOOR PLAN (POWER)
SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

PROJ NORTH
TRUE NORTH

File name: M:\PROJECTS\KNUTE'S MISC. STUFF\ARCHIPLEX MAINTENANCE STATIONS\BRIGHAM MAINTENANCE FACILITY\DRAWINGS\M201.DWG Last edited: 09/02/05 @ 09:52

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KEY PLAN

SHEET TITLE

POWER FLOOR PLAN

E301